

# Submitting Antibody Data

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This page provides instructions for adding antibody validation data to the GUDMAP/RBK Data Explorer.

If you have any questions or feedback, please send them to your consortium's help email: [help@gudmap.org](mailto:help@gudmap.org) or [help@rebuildingakidney.org](mailto:help@rebuildingakidney.org)

We also have the following training materials available:

- [Webinar Slides](#)
- [Webinar Replay 12/11/2017 \(37:08\)](#)

## Overview

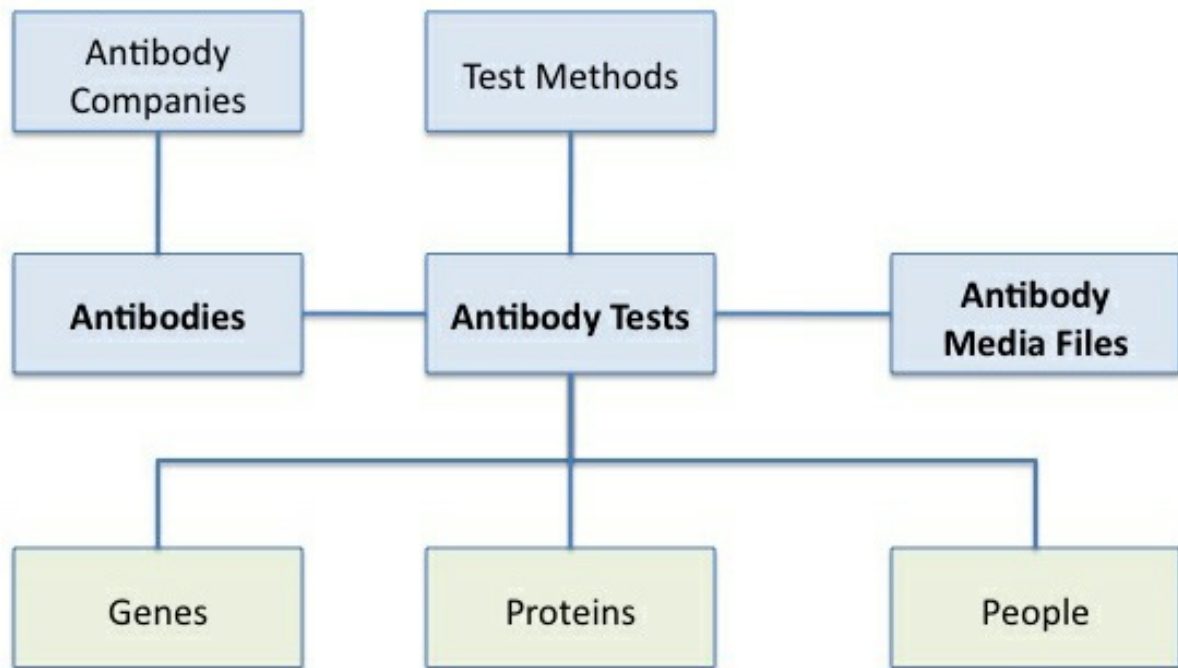
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Adding antibody validation data involves the following steps:

- Make sure you are in the correct Globus authentication group, [kidney-writers](#), and that you are logged in.
- Search that antibody data already exists for your test.
- If it doesn't, then create an antibody record.
- Create an antibody test record.
- Add distribution terms to your antibody test record.
- Add any images or other media.
- Add a test summary sheet.
- You may also 'bulk add' several test records if they are similar (ie, only the media type and outcome are different).

## Schema

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The Antibody schema contains two main tables:

- **Antibodies:** General product information about each antibody, similar to what might be found on the manufacturer's website.
- **Antibody Tests:** Information about researchers' experience using each antibody.

Other related tables include:

- **Antibody Media Files:** Images and other media files related to antibody tests (slide images, summary PDFs, etc.)
- **Test Methods:** Descriptions of the methods used in antibody tests.
- Various vocabulary tables.

## Are you in the **kidney-writers** group? (Required)

If you haven't already done so, go to this link to join the group: <https://www.globus.org/app/groups/af0b4010-5b75-11e6-9575-22000aef184d/about>

You can find more details about this process at [Accessing GUDMAP and RBK Resources](#).

### 1. Search for the antibody you're working on

- In the top navigation bar, click **Search**, select **Antibody**, then **Antibodies**.
- This will take you to the antibody search page, which you can use to find out if the antibody you're working on is already listed in our database. Start typing the name of the antibody in the search field or use the filtering sidebar on the left to narrow down the results.

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Antibodies

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Protein Target

Search

☐ H2-Q12  
☐ GM9736  
☐ FABP4  
☐ ACTA2  
☐ MAFB  
☐ COL1A1  
☐ FLT1  
☐ KRT8  
☐ CNN1  
☐ PAX8  
Show More ...

Company

Product Name

Monoclonal

Search

Items per page

Displaying 25 of 49 Records

Actions	RID ↑↓	Catalog Number ↑↓	Company Name ↑↓	Host Species ↑↓	Host_Monoclonal ↑↓	Protein T
	Q-BH7E	C9848	Sigma	mouse	yes	CALB1
	Q-BH7G	ab55467	Abcam	mouse	yes	CITED1
	Q-BH7J	12891S	Cell Signaling	rabbit	yes	SIX1
	Q-BH7M	2230	Cell Signaling	rabbit	yes	LEF1
	Q-BH7P	TROMA-1	DSHB	rat	yes	KRT8
	Q-BH7R	AF599	R&D	goat		JAG1

- If your antibody is there, you can go ahead and create the antibody test record (See next section). If not, move on to the next step below.

## 2. If you cannot find the antibody, create a new antibody record

If you did find the antibody, move on to the next step.

- From the navigation bar, click *Create > Antibody > Antibodies*.

The **Create Antibodies Record** form opens in a new browser tab.

**RBK/GUDMAP Resources** Search ▾ Dev-Only Search ▾ Create ▾ Feedback cristina@globusid.org ▾

### Create Antibodies Record

\* indicates required field

Submit Data

+ ▾

Record Number	1
RID	<code>_ermrest.urlb32_encode(nextval("_ermrest.rid_seq"::regclass))</code>
* Company ID	Select a value ▾
* Catalog Number	
* Host Species	Select a value ▾
Host Monoclonal	▾
* Protein Target	Select a value ▾
Product Name	

- Select the values for each relevant field. The **required** fields are:
  - Company ID*
  - Catalog Number*
  - Host Species*
  - Protein Target*: Note that this list comes from the NCBI Gene List and should include all proteins. Also, you will soon be able to search on synonyms.
  - Curation Status*: Choose either
    - In Preparation* (still drafting),
    - PI Review* (ready for internal approval), or
    - Submitted* (ready for Hub review). Your data will **not** be viewable publicly until approved for *Release* by the Hub. [For a complete description of the Curation Process, click here.](#)
  - Consortium*: Make sure you indicate whether this is from the RBK or GUDMAP Consortium.
- When finished, click **Submit Data** to save your new antibody record. You can now close this tab.

## What if my antibody is not from a vendor?

If your antibody is not from a vendor (ie, it's a donated reagent), then you may choose a name for the *Company ID* ("Donated reagent from X Lab") and use the RRID for the *Catalog Number* or some other unique identifier.

### 3. Create your new antibody test record

- From the navigation bar, click *Create > Antibody > Antibody Test*.

The **Create Antibody Test Record** form appears in a new browser tab.

- Select the values for each relevant field. The required fields are:
  - Antibody Product ID*
  - Protein Target*: Note that this list comes from the NCBI Gene List and should include all proteins. Also, you will soon be able to search on synonyms.
  - Curation Status*: Choose either
    - In Preparation* (still drafting),
    - PI Review* (ready for internal approval), or
    - Submitted* (ready for Hub review). Your data will **not** be viewable publicly until approved for *Release* by the Hub. [For a complete description of the Curation Process, click here.](#)
  - Principal Investigator*: Choose the name of your project's contact PI.
  - Consortium*: Make sure you indicate whether this is from the RBK or GUDMAP consortium.
- Note: If you are creating multiple antibody test records, you may click the **+** button (under the **Submit Data** button) to copy over the record form. Each time you click **+** will display a copy of the most recent form that you can edit as needed.

## Create Antibody Tests Records

\* indicates required field

Submit Data



Record Number	1	2
<u>RID</u>	<code>_ermrest.urlb32_encode(nextval('_ermrest.rid_seq')::regclass</code>	<code>_ermrest.urlb32_encode(nextval('_ermrest.rid_seq')::regclass</code>
* <u>Antibody Product ID</u>	Abcam: ab55467	Abcam: ab55467
<u>Species Tested In</u>	Mus musculus	Mus musculus
<u>Stage</u>	E10.5	E10.5
* <u>Protein Target</u>	TRIM49D1	TRIM49D1
<u>Related Gene</u>	Select a value	Select a value
<u>Comments</u>		

- When finished, click **Submit Data** to save your new antibody test record(s).
- If you are not finished with your submission, you may still save your work by clicking the **Submit Data** button. Then you may go back to the record, log in and click **Edit** to resume filling it out.

[+ Create](#)
[✎ Edit](#)
[↓ Download CSV](#)
[🔖 Permalink](#)

Search



Items per page ▾

isplaying 25 of 49 Records

## 4. Add distribution terms to your antibody test record

- Scroll to the bottom of the antibody test record until you see a section labelled **Distribution**. This is our term for cell types / anatomical regions relevant to this antibody test.
- Click **Add** in the **Distributions** section.

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Test Results for Abcam: ab55467
+ Create
Edit
Copy
Delete
Hide Empty Related Records
Permalink

ANTIBODY TESTS

Company
Abcam

Principal Investigator
Cristina Williams

Consortium
RBK

Distributions
None
Edit
Add
View More

Record Status Detail
Incomplete : An antibody test requires a summary sheet; An antibody test requires at least one image

Curation Status
In Preparation

▼ Test Summary Sheets (no results found)
Add | View More

Actions	RID ↓↑	Thumbnail Image ↓↑	Name ↓↑	Principal Investigator ↓↑	Bytes ↓↑	Description ↓↑	Record Status ↓↑	Curation
No Results Found								

▼ Test Images (no results found)
Add | View More

Actions	RID ↓↑	Thumbnail Image ↓↑	Name ↓↑	Principal Investigator ↓↑	Bytes ↓↑	Description ↓↑	Record Status ↓↑	Curation
No Results Found								

This will bring up a **Create Antibody Test Distribution Record** window.

- Start typing the anatomical term in the search term to narrow your results.

Choose Anatomy Terms

X

No Item Selected

Submit

proximal tubule

X

Q

Items per page ▾

+

Displaying 25 of 69 Records

			convoluted tubule and is responsible for avid reabsorption of water and solutes[GO].		
<input type="checkbox"/>	pronephric proximal straight tubule	UBERON:0009622:	A proximal straight tubule that is part of a pronephros.	uberon	false
<input type="checkbox"/>	metanephric proximal tubule	UBERON:0005151:	The metanephric proximal tubule is a metanephric nephron tubule that connects Bowman's capsule to the descending thin limb of the loop of Henle in the metanephros. It has a	uberon	false

- Click **Select a value**
- Click the checkmark to the left of your desired distribution value.
- Click **Submit Data** to add the distribution.
- Repeat for as many distributions as desired.



## 5. Add test summary sheets and images

Near the bottom of the newly-created antibody test record, you'll see empty sections labelled [Test Summary Sheets](#) for PDF summaries of the test, and [Test Images](#) for slide images relevant to the test.

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Test Results for Abcam: ab55467
+ Create
Edit
Copy
Delete
Hide Empty Related Records
Permalink

ANTIBODY TESTS

Company	Abcam
Principal Investigator	Cristina Williams
Consortium	RBK
Distributions	None <a href="#">Edit</a>   <a href="#">Add</a>   <a href="#">View More</a>
Record Status Detail	Incomplete : An antibody test requires a summary sheet; An antibody test requires at least one image
Curation Status	In Preparation

▼ Test Summary Sheets (no results found)
[Add](#) | [View More](#)

Actions	RID ↓↑	Thumbnail Image ↓↑	Name ↓↑	Principal Investigator ↓↑	Bytes ↓↑	Description ↓↑	Record Status ↓↑	Curation
No Results Found								

▼ Test Images (no results found)
[Add](#) | [View More](#)

Actions	RID ↓↑	Thumbnail Image ↓↑	Name ↓↑	Principal Investigator ↓↑	Bytes ↓↑	Description ↓↑	Record Status ↓↑	Curation
No Results Found								

To add a test-related files:

- Click **Add** in the **Test Images** or **Test Summary Sheets** section.

RBK/GUDMAP Resources

Search ▾

Dev-Only Search ▾

Create ▾

Feedback

cristina@globusid.org ▾

Test Results for Abcam: ab55467

[+ Create](#) [✎ Edit](#) [📄 Copy](#) [🗑 Delete](#) [✂ Hide Empty Related Records](#) [🔖 Permalink](#)

ANTIBODY TESTS

Company

Abcam

Principal Investigator

Cristina Williams

Consortium

RBK

Distributions

None

Edit | Add | View More

Record Status Detail

Incomplete : An antibody test requires a summary sheet; An antibody test requires at least one image

Curation Status

In Preparation

▼ Test Summary Sheets (no results found)

Add

View More

Actions	RID ▴▾	Thumbnail Image ▴▾	Name ▴▾	Principal Investigator ▴▾	Bytes ▴▾	Description ▴▾	Record Status ▴▾	Curation
No Results Found								

▼ Test Images (no results found)

Add

View More

Actions	RID ▴▾	Thumbnail Image ▴▾	Name ▴▾	Principal Investigator ▴▾	Bytes ▴▾	Description ▴▾	Record Status ▴▾	Curation
No Results Found								

This will bring up the **Choose Antibody Media Files** window.

Choose Antibody Media Files

X

No Item Selected







Search

Q

Items per page ▾

+

Displaying 25 of 397 Records

<div><div><input checked="" type="checkbox"/> All</div><div><input type="checkbox"/> None</div></div>	RID ↑↓	Thumbnail Image ↑↓	Name ↑↓	Principal Investigator ↑↓	Bytes ↑↓	Description
<input type="checkbox"/>	Q-BHN6	 hCOL1A1.jpg	hCOL1A1.jpg	Benjamin Humphreys, WUSTL	200,072	
<input type="checkbox"/>	Q-BHN8	 hDES.jpg	hDES.jpg	Benjamin Humphreys, WUSTL	202,402	
<input type="checkbox"/>	Q-BHNA	 h H2AFX.jpg	h H2AFX.jpg	Benjamin Humphreys, WUSTL	203,649	
<input type="checkbox"/>	Q-BHNC	 hKi67.jpg	hKi67.jpg	Benjamin Humphreys, WUSTL	217,477	
<input type="checkbox"/>	Q-BHNE	 h LCN2.jpg	h LCN2.jpg	Benjamin Humphreys, WUSTL	208,485	
<input type="checkbox"/>	Q-	 hVim.jpg	hVim.jpg	Benjamin Humphreys,	218,906	

- If the desired file has already been uploaded, select it.

- If not, upload your file:
  - Click the **+** at the top right-hand side of the **Choose Antibody Media Files** window.

Choose Antibody Media Files X

No Item Selected







Submit

Search

Items per page ▾

**+**

Displaying 25 of 397 Records

<input checked="" type="checkbox"/> All <input type="checkbox"/> None	RID ↑↓	Thumbnail Image ↑↓	Name ↑↓	Principal Investigator ↑↓	Bytes ↑↓	Description
<input type="checkbox"/>	Q-BHN6	 hCOL1A1.jpg	hCOL1A1.jpg	Benjamin Humphreys, WUSTL	200,072	
<input type="checkbox"/>	Q-BHN8	 hDES.jpg	hDES.jpg	Benjamin Humphreys, WUSTL	202,402	
<input type="checkbox"/>	Q-BHNA	 h H2AFX.jpg	h H2AFX.jpg	Benjamin Humphreys, WUSTL	203,649	
<input type="checkbox"/>	Q-BHNC	 hKi67.jpg	hKi67.jpg	Benjamin Humphreys, WUSTL	217,477	
<input type="checkbox"/>	Q-BHNE	 h LCN2.jpg	h LCN2.jpg	Benjamin Humphreys, WUSTL	208,485	
<input type="checkbox"/>	Q-	 hVim.jpg	hVim.jpg	Benjamin Humphreys,	218,906	

This will open a [Create Antibody Media Files Record](#) page in a separate browser tab.

RBK/GUDMAP Resources
Search
Dev-Only Search
Create
Feedback
cristina@globusid.org


### Create Antibody Media Files Record

\* indicates required field

Submit Data

+

▼

Record Number	1		
Identifier	No file Selected		
* Principal Investigator	Select a value		▼
Media Type	Select a value		▼
* Curation Status	In Preparation		✕ ▼
* Data Provider	Select a value		▼
* Consortium	RBK		✕ ▼
Description			

- Click on [Select File](#) to select a file from your computer. Either an image file if you're adding a test image or a PDF for the test summary.

RBK/GUDMAP Resources
Search
Dev-Only Search
Create
Feedback
cristina@globusid.org


### Create Antibody Media Files Record

\* indicates required field

Submit Data

+

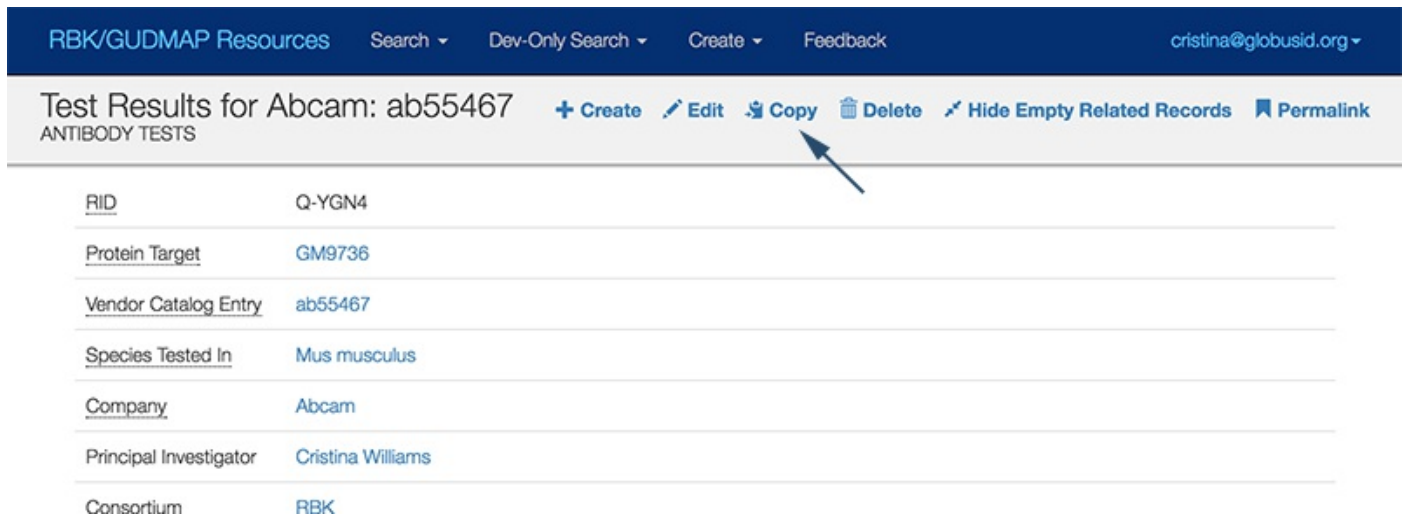
▼

Record Number	1		
Identifier	No file Selected		
* Principal Investigator	Select a value		▼
Media Type	Select a value		▼
* Curation Status	In Preparation		✕ ▼
* Data Provider	Select a value		▼
* Consortium	RBK		✕ ▼
Description			

- Fill in the rest of the fields on the form. Required fields are:
  - *Principal Investigator*: Choose the name of the contact PI for your project. If their name isn't available, please contact the Hub.
  - *Curation Status*: Choose either
    - *In Preparation* (still drafting),
    - *PI Review* (ready for internal approval), or
    - *Submitted* (ready for Hub review). Your data will **not** be viewable publicly until approved for *Release* by the Hub. [For a complete description of the Curation Process, click here.](#)
  - *Data Provider*: This is your lab's institution. If you need to add an institution, please contact the Hub.
  - *Consortium*: Make sure you indicate whether this is from the RBK or GUDMAP consortium.
  - *Description*: This is not required - however, this field is useful for test images if you want to describe what different colors represent, etc.
- Click **Submit Data** to complete the upload.
- Go back to the browser tab of your Antibody Test Record and select your newly-uploaded image from the **Choose Antibody Media Files** window.
- Click **Submit Data** to link your image or PDF to the antibody test. Note you may need to refresh the page to see the results.

If you've done several tests that are mostly the same (e.g., two tests that differ only by media type and outcome), you can save time by copying an existing test and modifying it.

- Start at the record you want to copy.
- Click **Copy** at the top of the page (if you don't see the **Copy** button, you're probably not logged in).



<u>RID</u>	Q-YGN4
<u>Protein Target</u>	GM9736
<u>Vendor Catalog Entry</u>	ab55467
<u>Species Tested In</u>	Mus musculus
<u>Company</u>	Abcam
<u>Principal Investigator</u>	Cristina Williams
<u>Consortium</u>	RBK

- Make the desired changes to the new record and click the **Submit Data** button. →

## 6. Reviewing and Submitting Antibody Data

**Note:** By the hard launch of the new GUDMAP site in April, there will be dashboards and email notifications to make this process more straightforward. In the meantime, here is how a project's PI or designated reviewer can find their project's data with a Curation Status of "PI Review"

- Make sure you are logged in.
- From the navigation bar, click *Search > Antibody Data > Antibody Tests*.
- In the faceting sidebar on the left, scroll to **Curation Status** and choose *PI Review*. Note: Keep in mind that the data submitter may have forgotten to set the Curation Status field, in which case the status would still be *In Preparation*.
- In the faceting sidebar, scroll to **Principal Investigator** and choose your project's PI. Now you should see the data you need to review.
- When your record is approved internally, change *Curation Status* to *Submitted* to send it to the Hub (click here for the full [Curation Workflow](#)).

## 7. Deleting Antibody Data

Before you can delete Antibody Test record, you must delete (unlink) any distributions, test summary sheets or test images associated with it.

To delete an antibody test record:

- In the 'Distributions' field, click the Edit link to the right and for each distribution, click the 'x' icon in the *Actions*

column.

- Scroll down the record to the sections for 'Test Summary Sheets' and 'Test Images'.
- In each of these sections, unlink the entries by clicking the 'x' icon in the *Actions* columns.
- Once all of the related records have been deleted (unlinked), then scroll up to the top of the record and click *Delete*.

