LINCS_DWG_AntibodyReagents_MetaData_Release_Oct-12-2012

LINCS stand	dardized antibody information								Notes
Unique ID	LINCS Field Name	Related to	Description	Importance (1: essential; 2: desirable / recommende 3: optional)	Comments	Ontologies / references considered	Suggested terminology	Link to ontology / reference	Additional Notes (for development)
AR:1	AR_Name	canonical antibody	The primary name of the antibody as chosen by LINCS	1		NIF antibody registry	Antibody name	http://neuinfo.org/nif/nifgwt. html?query=antibodyregistry	
AR:2	AR_ID	canonical antibody	Unique identifier of antibody reagent	1		NIF antibody registry	Antibody ID	http://neuinfo.org/nif/nifgwt. html?query=antibodyregistry	
AR:3	AR_Alternative_Name	canonical antibody	List of synonymous antibody names, including the primary name	1		Vendor catalog			
AR:4	AR Center ID	canonical antibody	Center specific ID for antibody						
AR:5	AR_Provider	batch	Vendor or lab that supplied the antibody	1		NIF antibody registry and vendor catalog		http://neuinfo.org/nif/nifgwt. html?query=antibodyregistry	
AR:6	AR_Provider_Catalog_ ID	batch	ID or catalogue number assigned to the antibody by the vendor or provider	1		NIF antibody registry and vendor catalog		http://neuinfo.org/nif/nifgwt. html?query=antibodyregistry	
AR:7	AR_Batch_ID	batch	Batch or lot number assigned to the antibody by the vendor or provider	1					
AR:8	AR_Target_Protein	canonical antibody	The name of the protein (target), which is the recommended name from the UniProt database. If the name of a related entity is used instead, this should be documented explicitly in AR_Immunogen.	1		UniProt		http://www.uniprot.org/	
AR:9	AR_Target_Protein_ID	canonical antibody	The UniProt ID of the protein targeted by the antibody, if available. If the UniProt ID of a related entity is used instead, this should be documented explicitly.	1		UniProt	UniProt ID	http://www.uniprot.org/	
AR:10	AR_Target_Gene	canonical antibody	The NCBI gene name. In cases where the protein is modified (the protein sequence differs from the sequence encoded by the gene listed), it should be described in AR_Immunogen.	2		NCBI/Gene		http://www.ncbi.nlm.nih. gov/gene	
AR:11	AR_Target_Gene ID	canonical antibody	Entrez Gene ID if using NCBI gene name	2		NCBI/Gene		http://www.ncbi.nlm.nih. gov/gene	
AR:12	AR_Target_Organism	canonical antibody	The organism of the target protein/gene described in AR:7-AR: 10; NCBI nomenclature (e.g. Homo sapiens).	1		NCBITaxon	Organism	http://bioportal.bioontology. org/ontologies/1132	
AR:13	AR_Immunogen	canonical antibody	A complete description of the immunogen used to make the antibody (text). This description should include the source of the immunogen (e.g. recombinantly expressed in E. coli, purified from canine pancreas, etc.). Any references relevant to the immunogen or making of the antibody can be listed in AR_Relevant_Reference.	2		BAO and vendor catalog	Protein preparation method	http://bioportal.bioontology. org/ontologies/1533	
AR:14	AR_Immunogen_Sequence	canonical antibody	If the immunogen is a peptide, protein fragment, or small protein, the amino acid sequence should be provided.	2		NCBI/Protein	Protein sequence	http://www.ncbi.nlm.nih. gov/protein/	
AR:15	AR_AntibodyClonality	canonical antibody	A controlled vocabulary specifying whether the antibody is polyclonal or monoclonal.	1		NIF antibody registry and vendor catalog	Antibody clonality	http://neuinfo.org/nif/nifgwt. html?query=antibodyregistry	
AR:16	AR_Source_Organism	canonical antibody	A controlled vocabulary describing the source of the antibody (e.g. mouse, rabbit, horse, goat, etc.)	1		NCBITaxon	Organism	http://bioportal.bioontology. org/ontologies/1132	
AR:17	AR_Antibody_Isotype	canonical antibody	A controlled vocabulary describing the antibody isotype (e.g. IgG, IgM, etc.)	1		NIF antibody registry and vendor catalog	Antibody isotype	http://neuinfo.org/nif/nifgwt. html?query=antibodyregistry	
AR:18	AR_Engineering	canonical antibody	Is the antibody engineered/produced in an animal? Yes/No. If yes, then information should be provided about the engineering method and the production method (produced in mammalian cells, insect cells, yeast, bacteria, etc.).	1					

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LINCS standardized antibody information									Notes
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AR:19	AR_Antibody_Purity	canonical antibody	A description of the antibody's level of purity (e.g., if it was purified, affinity purified, etc.)a controlled vocabulary should be developed.	2		NIF antibody registry and vendor catalog	Antibody preparation method	http://neuinfo.org/nif/nifgwt. html?query=antibodyregistry	
AR:20	AR_Antibody_Labeling	canonical antibody	It should be indicated (Yes/No) whether the antibody is labeled or conjugated; If yes, with what fluor or enzyme (horseradish peroxidase)	1		NIF antibody registry and vendor catalog		http://neuinfo.org/nif/nifgwt. html?query=antibodyregistry	
AR:21	AR_Recommended_Experiment_Ty	canonical antibody	The type of experiment in which the antibody is useful, e.g., western blot, ELISA, immunostaining, etc. This depends on the ability of the antibody to recognize the native (non-denatured) or denatured target protein.	3	From MIAPAR	NIF antibody registry and vendor catalog		http://neuinfo.org/nif/nifgwt. html?query=antibodyregistry	
AR:22	AR_Relevant_Reference	canonical antibody	Appropriate literature references can be provided.	2		PubMed	PMID	http://www.ncbi.nlm.nih. gov/pubmed/	
AR:23	AR_Specificity	canonical antibody	Proteins other than the intended target with which the antibody cross-reacts. This includes homologues of the target protein from other organisms (text field; appropriate references should be provided if available).	2		NCBITaxon	Organism	http://bioportal.bioontology. org/ontologies/1132	
LINCS expe	rimental antibody related information	(experiment specific	information)						Notes
	AR_Antibody_Concentration	experiment	Final concentration of antibody used in assay	2		BAO	Concentration value; Concentration unit	http://bioportal.bioontology. org/ontologies/1533	
EXP_AR:2	AR_ Incubation_Time	experiment	Time of incubation with the antibody in the assay	2		BAO	Incubation time	http://bioportal.bioontology. org/ontologies/1533	
EXP_AR:3	AR_Antibody_Primary/Secondary	batch	This describes whether the antibody was used as a primary or secondary antibody in the experiment.	1			Antibody type: primary antibody, secondary antibody		