

# Technology Licensing

**From:** James Hoberg <james.hoberg@milliporesigma.com>  
**Sent:** Friday, March 27, 2020 5:01 AM  
**To:** Jinsong Zhang <jinsong.zhang@health.slu.edu>  
**Subject:** [External] Great interest in your research and AML1-ETO polyclonal

Dear Dr. Zhang,

My name is Jamie Hoberg, and I am part of the Business Development team at MilliporeSigma responsible for licensing new technologies. We have read your recent paper (attached) and identified the following antibody with interest:

Anti- AML1-ETO polyclonal

We may be interested in potentially licensing this antibody. At your convenience I would like to schedule a 15-minute call with you to discuss the antibody in more detail. The goal of the call is to learn more information about the opportunity and explore its commercial potential.

The goal of the license is to put the antibody in our catalog and sell to customers for research use only.

Your lab would also not be responsible for doing any QC before commercialization. It would be an honor to commercialize your reagents.

Thank you very much for your consideration.

I look forward to hearing from you soon.

James Hoberg, PhD  
Director of Business Development and Licensing  
Research Solutions  
MilliporeSigma

A business of Merck KGaA, Darmstadt, Germany

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Experience our products at [www.emdmillipore.com](http://www.emdmillipore.com)  
Experience our products at [sigma-aldrich.com](http://sigma-aldrich.com)

Our antibody has been licensed to MilliporeSigma for sale  
[https://www.emdmillipore.com/US/en/product/Anti-AML1-ETO,MM\\_NF-ABC1411-100UL](https://www.emdmillipore.com/US/en/product/Anti-AML1-ETO,MM_NF-ABC1411-100UL)

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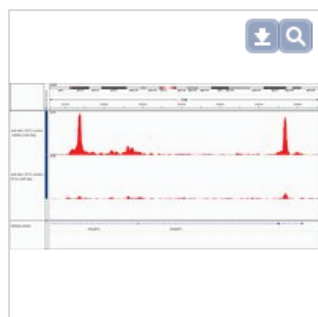
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**ABC1411-100UL** **Sigma-Aldrich**

## Anti-AML1-ETO



Anti-AML1-ETO, Cat. No. ABC1411, is a rabbit polyclonal antibody that detects AML1-ETO and is tested for use in ChIP-seq, Immunoprecipitation, and Western Blotting.

**New** ABC1411-100UL

100 µL

USD 358.00

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### Overview

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Description	
Catalogue Number	ABC1411-100UL
Description	Anti-AML1-ETO
Alternate Names	<ul style="list-style-type: none"> <li>Protein CBFA2T1</li> <li>Cyclin-D-related protein</li> <li>Eight twenty one protein</li> <li>Protein ETO</li> <li>Protein MTG8</li> <li>Zinc finger MYND domain-containing protein 2</li> </ul>
Background Information	<p>Protein CBFA2T1 (UniProt: Q06455; also known as Cyclin-D-related protein, Eight twenty one protein, Protein ETO, Protein MTG8, Zinc finger MYND domain-containing protein 2) is encoded by the RUNX1T1 (also known as AML1T1, CBFA2T1, CDR, ETO, MTG8, ZMYND2) gene (Gene ID: 862) in human. In acute myeloid leukemias (AMLs) a recurring chromosomal translocation termed as t(8;21) is reported to generates the AML1 (8;21) ETO leukemia fusion protein that contains the DNA-binding domain of 1 transcription factor RUNX1 and almost all of ETO. It is shown that RUNX1 and the AML1 ETO fusion protein are co-expressed in t(8;21) AML cells and antagonize each other's gene-regulatory functions by co-occupying the binding sites of AML1 ETO activated genes. Both AML1-ETO and the AML1 protein are reported to recognize the same consensus DNA-binding motif (TGT/CGGT). AML1 ETO can either activate or repress transcription of different target genes. It can activate transcription of genes via recruitment of p300 and can repress transcription by competitively displacing RUNX1 and recruiting corepressors such as histone deacetylase 3 (HDAC3). Myeloid leukemia cells with the t(8;21) translocation, such as Kasumi-1 cells, display elevated levels of Bcl-2 that prolongs their life span and contribute to the development of t(8;21) leukemia. (Ref.: Guo, C., et al. (2020). J. Biol. Chem. 295(13) 4212-4223; Klampfer, L., et al. (1996). Proc Natl Acad Sci USA. 93(24): 14059-14064).</p>

### Product Information

Format	Serum
Presentation	Rabbit polyclonal antibody in serum with 0.05% sodium azide.
Quality Level	<a href="#">MQ200</a>

**[External] RE: ABC1411 Anti-AML1-ETO; WB validation Data**

James Hoberg <james.hoberg@milliporesigma.com>

Tue 1/18/2022 5:51 AM

To: Jinsong Zhang <jinsong.zhang@health.slu.edu>

Cc: Malcolm Townes <malcolm.townes@slu.edu>

Dear Dr. Zhang,,

I wanted to inform you that the AML1-ETO antibody (catalog code ABC1411) we licensed from you is also available on the Millipore Japan Website. As always, thank you very much for licensing your antibody to us. It is an honor. Have a good day.

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**From:** Jinsong Zhang <jinsong.zhang@health.slu.edu>

**Sent:** Monday, October 11, 2021 9:08 AM

**To:** James Hoberg <james.hoberg@milliporesigma.com>

**Cc:** Malcolm Townes <malcolm.townes@slu.edu>

**Subject:** Re: ABC1411 Anti-AML1-ETO; WB validation Data

[WARNING - EXTERNAL EMAIL] Do not open links or attachments unless you recognize the sender of this email. If you are unsure please click the button "Report suspicious email"

Hi James,

Great. Thanks for the information.

Jinsong

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**From:** James Hoberg <james.hoberg@milliporesigma.com>

**Sent:** Monday, October 11, 2021 5:34 AM

**To:** Jinsong Zhang <jinsong.zhang@health.slu.edu>

**Cc:** Malcolm Townes <malcolm.townes@slu.edu>

**Subject:** [External] RE: ABC1411 Anti-AML1-ETO; WB validation Data

Dear Dr. Zhang,

I wanted to inform you that the AML1-ETO antibody (catalog code ABC1411) we licensed from you is also available on Millipore European and the Sigma Website. Please see the link below to the Sigma website.

<https://www.sigmaaldrich.com/US/en/product/mm/abc1411?context=product>

It may be important to share this link with collaborators in certain parts of Europe, including Austria, Belgium, Denmark, Finland, Germany, Italy, Netherlands, Norway, Portugal, Spain, Sweden, and Switzerland. Up until this time the product has not been available for sale in these European countries.

As always, thank you very much for licensing your antibody to us. It is an honor. Have a good day.

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**From:** Jinsong Zhang <jinsong.zhang@health.slu.edu>

**Sent:** Friday, September 10, 2021 10:00 AM

**To:** James Hoberg <james.hoberg@milliporesigma.com>

**Cc:** Malcolm Townes <[malcolm.townes@slu.edu](mailto:malcolm.townes@slu.edu)>  
**Subject:** Re: ABC1411 Anti-AML1-ETO; WB validation Data

[WARNING - EXTERNAL EMAIL] Do not open links or attachments unless you recognize the sender of this email. If you are unsure please click the button "Report suspicious email"

Dear Dr. Hoberg,

Thank you! It is a great experience working with you and MilliporeSigma. I will let you know if I receive any questions about this antibody. Have a great weekend.

Best regards,

Jinsong

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**From:** James Hoberg <[james.hoberg@milliporesigma.com](mailto:james.hoberg@milliporesigma.com)>  
**Sent:** Friday, September 10, 2021 8:18 AM  
**To:** Jinsong Zhang <[jinsong.zhang@health.slu.edu](mailto:jinsong.zhang@health.slu.edu)>  
**Cc:** Malcolm Townes <[malcolm.townes@slu.edu](mailto:malcolm.townes@slu.edu)>  
**Subject:** [External] RE: ABC1411 Anti-AML1-ETO; WB validation Data

Dear Dr. Zhang,

We are pleased to inform you that the AML1-ETO antibody we licensed from you has launched as product catalog # ABC1411. Please see below the links to our website that describes the products. You will note there are two different pack sizes for the product—25UL and 100UL.

[https://www.emdmillipore.com/US/en/product/Anti-AML1-ETO,MM\\_NF-ABC1411-100UL](https://www.emdmillipore.com/US/en/product/Anti-AML1-ETO,MM_NF-ABC1411-100UL)  
[https://www.emdmillipore.com/US/en/product/Anti-AML1-ETO,MM\\_NF-ABC1411-25UL](https://www.emdmillipore.com/US/en/product/Anti-AML1-ETO,MM_NF-ABC1411-25UL)

Please also feel free to review the information and provide comments and feedback.

Please also note that there may be a delay of the products showing-up on websites in certain parts of Europe (including Germany) and Asia. We are working on getting this fixed as soon as possible. If you happen to get questions from collaborators about this, please have them contact me and I will be able to help.

The antibody will also be available very soon on the Sigma Website. Once it is available on the Sigma website I will send you the links.

Thank you for the opportunity to license your antibody. It is an honor. Have a good day.

James Hoberg, PhD  
Director of Business Development and Licensing  
Research Solutions

**MilliporeSigma**

A business of Merck KGaA, Darmstadt, Germany

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Experience our products at [www.emdmillipore.com](http://www.emdmillipore.com)