10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

BRMS1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant BRMS1.
Catalog # AT1311a

Specification

BRMS1 Antibody (monoclonal) (M01) - Product Information

Application	**IP, WB, E**
Primary Accession	Q9HCU9
Other Accession	BC009834
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG1 Kappa**
Calculated MW	**28461**

BRMS1 Antibody (monoclonal) (M01) - Additional Information

Gene ID 25855

Other Names
Breast cancer metastasis-suppressor 1, BRMS1

Target/Specificity
BRMS1 (AAH09834, 1 a.a. ~ 246 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution
WB~~1:500~1000

Format
Clear, colorless solution in phosphate buffered saline, pH 7.2 .

Storage
Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions
BRMS1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

BRMS1 Antibody (monoclonal) (M01) - Protocols

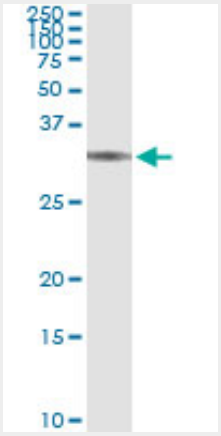
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry

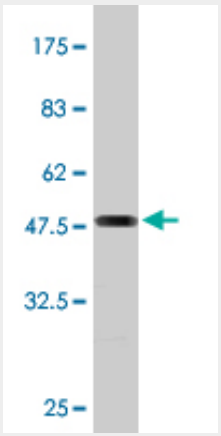
10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

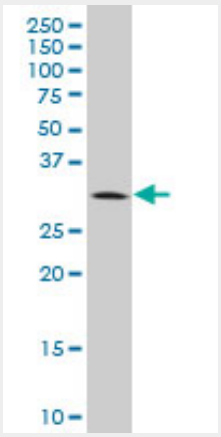
BRMS1 Antibody (monoclonal) (M01) - Images



Immunoprecipitation of BRMS1 transfected lysate using anti-BRMS1 monoclonal antibody and Protein A Magnetic Bead (U0007), and immunoblotted with BRMS1 MaxPab rabbit polyclonal antibody.

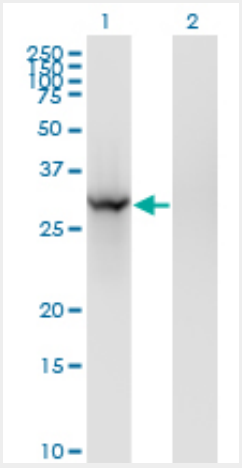


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (52.8 KDa) .



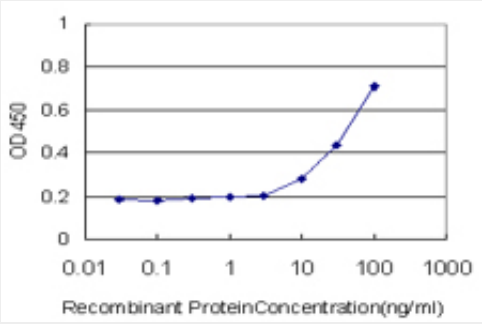
10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

BRMS1 monoclonal antibody (M01), clone 2D4-2G11. Western Blot analysis of BRMS1 expression in human liver.



Western Blot analysis of BRMS1 expression in transfected 293T cell line by BRMS1 monoclonal antibody (M01), clone 2D4-2G11.

Lane 1: BRMS1 transfected lysate (Predicted MW: 28.5 KDa).
Lane 2: Non-transfected lysate.



Detection limit for recombinant GST tagged BRMS1 is approximately 3ng/ml as a capture antibody.

BRMS1 Antibody (monoclonal) (M01) - Background

This gene reduces the metastatic potential, but not the tumorogenicity, of human breast cancer and melanoma cell lines. The protein encoded by this gene localizes primarily to the nucleus and is a component of the mSin3a family of histone deacetylase complexes (HDAC). The protein contains two coiled-coil motifs and several imperfect leucine zipper motifs. Alternative splicing results in two transcript variants encoding different isoforms.

BRMS1 Antibody (monoclonal) (M01) - References

1.Expression of the metastasis suppressor BRMS1 in uveal melanoma.Ventura BV, Quezada C, Maloney SC, Fernandes BF, Antecka E, Martins C, Bakalian S, di Cesare S, Burnier MN JrEcancermedicalscience. 2014 Mar 11;8:410. doi: 10.3332/ecancer.2014.410. eCollection 2014.2.BRMS1 Suppresses Lung Cancer Metastases through an E3 Ligase Function on Histone Acetyltransferase p300.Liu Y, Mayo MW, Nagji AS, Hall EH, Shock LS, Xiao A, Stelow EB, Jones DRCancer Res. 2013 Feb 15;73(4):1308-17. doi: 10.1158/0008-5472.CAN-12-2489. Epub 2012 Dec 26.3.Low BRMS1 expression promotes nasopharyngeal carcinoma metastasis in vitro and in vivo and is associated with poor patient survival.Cui RX, Liu N, He QM, Li WF, Huang BJ, Sun Y, Tang LL,

Chen M, Jiang N, Chen L, Yun JP, Zeng J, Guo Y, Wang HY, Ma J.BMC Cancer. 2012 Aug 29;12(1):376.4.Breast Cancer Metastasis Suppressor 1 (BRMS1) is destabilized by the Cul3-SPOP E3 ubiquitin ligase complex.Kim B, Nam HJ, Pyo KE, Jang MJ, Kim IS, Kim D, Boo K, Lee SH, Yoon JB, Baek SH, Kim JH.Biochem Biophys Res Commun. 2011 Nov 9.5.BRMS1 transcriptional repression correlates with CpG island methylation and advancedpathologic stage in non-small cell lung cancer.Nagji AS, Liu Y, Stelow EB, Stukenborg GJ, Jones DR.The Journal of Pathology (2010), DOI: 10.1002/path.27076.Breast cancer metastasis suppressor 1 (BRMS1) suppresses metastasis and correlates with improved patient survival in non-small cell lung cancer.Smith PW, Liu Y, Siefert SA, Moskaluk CA, Petroni GR, Jones DR.Cancer Lett. 2009 Apr 18;276(2):196-203. Epub 2008 Dec 25.7.Proteomics-Based Strategy To Delineate the Molecular Mechanisms of the Metastasis Suppressor Gene BRMS1.Rivera J, Megias D, Bravo J.J Proteome Res. 2007 Oct;6(10):4006-18. Epub 2007 Sep 14.8.Breast cancer metastasis suppressor 1 functions as a corepressor by enhancing HDAC1-mediated deacetylation of RelA/p65 and promoting apoptosis.Liu Y, Smith PW, Jones DR.Mol Cell Biol. 2006 Dec;26(23):8683-96. Epub 2006 Sep 25.