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

SEMA7A Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant SEMA7A.
Catalog # AT3809a

Product Information

Application	WB, E
Primary Accession	O75326
Other Accession	NM_003612
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	3D3
Calculated MW	74824

Additional Information

Gene ID	8482
Other Names	Semaphorin-7A, CDw108, JMH blood group antigen, John-Milton-Hargen human blood group Ag, Semaphorin-K1, Sema K1, Semaphorin-L, Sema L, CD108, SEMA7A, CD108, SEMAL
Target/Specificity	SEMA7A (NP_003603, 536 a.a. ~ 633 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 E~~N/A
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	SEMA7A Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

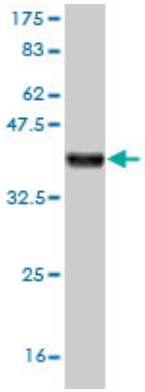
The protein encoded by this gene binds to cell surfaces through a glycosylphosphatidylinositol (GPI) linkage. The encoded glycoprotein is found on activated lymphocytes and erythrocytes. This protein may be involved in immunomodulatory and neuronal processes. Defects in this gene can result in loss of bone mineral density (BMD). Three transcript variants encoding different isoforms have been found for this gene.

References

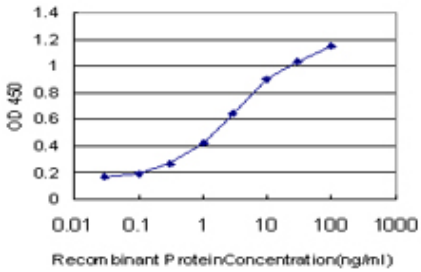
The semaphorin 7A receptor Plexin C1 is lost during melanoma metastasis. Lazova R, et al. Am J

Dermatopathol, 2009 Apr. PMID 19318806.Plexin C1, a receptor for semaphorin 7a, inactivates cofilin and is a potential tumor suppressor for melanoma progression. Scott GA, et al. J Invest Dermatol, 2009 Apr. PMID 18987670.Rapid detection of JMH antibodies with recombinant Sema7A (CD108) protein and the particle gel immunoassay. Seltsam A, et al. Transfusion, 2008 Jun. PMID 18422858.Semaphorin 7a promotes spreading and dendricity in human melanocytes through beta1-integrins. Scott GA, et al. J Invest Dermatol, 2008 Jan. PMID 17671519.Semaphorin 7A plays a critical role in TGF-beta1-induced pulmonary fibrosis. Kang HR, et al. J Exp Med, 2007 May 14. PMID 17485510.

Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.52 KDa) .



Detection limit for recombinant GST tagged SEMA7A is approximately 0.03ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.