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SEPX1 Antibody (monoclonal) (M02)

Mouse monoclonal antibody raised against a partial recombinant SEPX1.
Catalog # AT3815a

Product Information

Application	WB, IHC, E
Primary Accession	Q9NZV6
Other Accession	NM_016332
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	8B2
Calculated MW	12760

Additional Information

Gene ID	51734
Other Names	Methionine-R-sulfoxide reductase B1, MsrB1, 184-, Selenoprotein X, SelX, MSRB1, SEPX1
Target/Specificity	SEPX1 (NP_057416, 1 a.a. ~ 84 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IHC~~1:100~500 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	SEPX1 Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

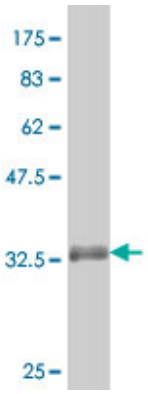
This gene encodes a selenoprotein, which contains a selenocysteine (Sec) residue at its active site. The selenocysteine is encoded by the UGA codon that normally signals translation termination. The 3' UTR of selenoprotein genes have a common stem-loop structure, the sec insertion sequence (SECIS), that is necessary for the recognition of UGA as a Sec codon rather than as a stop signal. This protein belongs to the methionine sulfoxide reductase B (MsrB) family, and it is expressed in a variety of adult and fetal tissues.

References

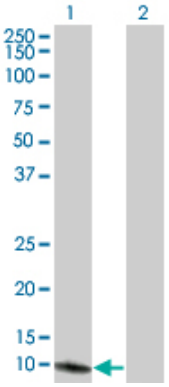
Up-regulation of ADM and SEPX1 in the lymphoblastoid cells of patients in monozygotic twins discordant for

schizophrenia. Kakiuchi C, et al. Am J Med Genet B Neuropsychiatr Genet, 2008 Jul 5. PMID 18081029.Neutrophil granulocytes uniquely express, among human blood cells, high levels of Methionine-sulfoxide-reductase enzymes. Achilli C, et al. J Leukoc Biol, 2008 Jan. PMID 17938273.The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Gerhard DS, et al. Genome Res, 2004 Oct. PMID 15489334.Methionine sulfoxide reduction in mammals: characterization of methionine-R-sulfoxide reductases. Kim HY, et al. Mol Biol Cell, 2004 Mar. PMID 14699060.Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences. Strausberg RL, et al. Proc Natl Acad Sci U S A, 2002 Dec 24. PMID 12477932.

Images

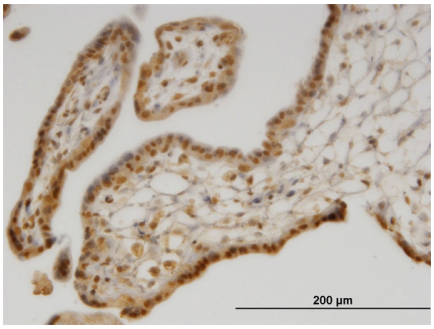


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (34.98 KDa) .

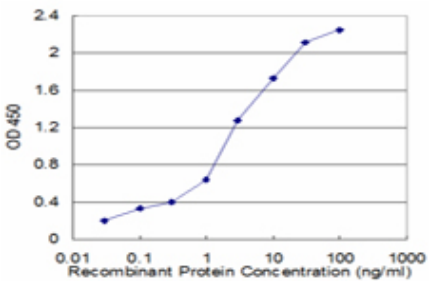


Western Blot analysis of SEPX1 expression in transfected 293T cell line by SEPX1 monoclonal antibody (M02), clone 8B2.

Lane 1: SEPX1 transfected lysate(12.713 KDa).
Lane 2: Non-transfected lysate.



Immunoperoxidase of monoclonal antibody to SEPX1 on formalin-fixed paraffin-embedded human placenta. [antibody concentration 1.5 ug/ml]



Detection limit for recombinant GST tagged SEPX1 is approximately 0.1ng/ml as a capture antibody.