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

TSTA3 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant TSTA3.
Catalog # AT4386a

Product Information

Application	WB, E
Primary Accession	Q13630
Other Accession	NM_003313
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG3 Kappa
Clone Names	2B9
Calculated MW	35893

Additional Information

Gene ID	7264
Other Names	GDP-L-fucose synthase, GDP-4-keto-6-deoxy-D-mannose-3, 5-epimerase-4-reductase, Protein FX, Red cell NADP(H)-binding protein, Short-chain dehydrogenase/reductase family 4E member 1, TSTA3, SDR4E1
Target/Specificity	TSTA3 (NP_003304, 222 a.a. ~ 321 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	TSTA3 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

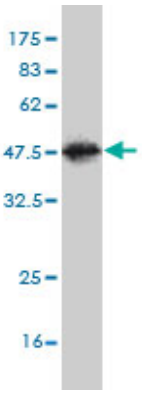
Background

Tissue specific transplantation antigen P35B is a NADP(H)-binding protein. It catalyze the two-step epimerase and the reductase reactions in GDP-D-mannose metabolism, converting GDP-4-keto-6-D-deoxymannose to GDP-L-fucose. GDP-L-fucose is the substrate of several fucosyltransferases involved in the expression of many glycoconjugates, including blood group ABH antigens and developmental adhesion antigens. Mutations in this gene may cause leukocyte adhesion deficiency, type II.

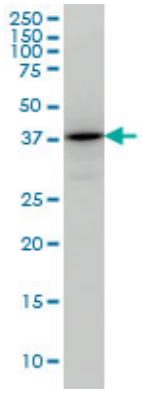
References

The SDR (short-chain dehydrogenase/reductase and related enzymes) nomenclature initiative. Persson B, et al. Chem Biol Interact, 2009 Mar 16. PMID 19027726.Identification of intrahepatic cholangiocarcinoma related genes by comparison with normal liver tissues using expressed sequence tags. Wang AG, et al. Biochem Biophys Res Commun, 2006 Jul 7. PMID 16712791.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.Complete sequencing and characterization of 21,243 full-length human cDNAs. Ota T, et al. Nat Genet, 2004 Jan. PMID 14702039.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.

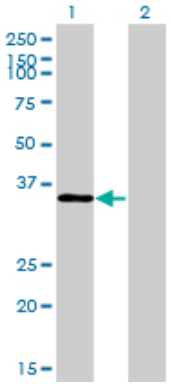
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.74 KDa) .

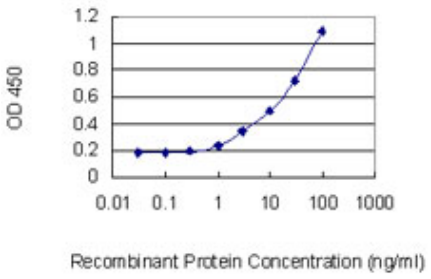


TSTA3 monoclonal antibody (M01), clone 2B9 Western Blot analysis of TSTA3 expression in HeLa ((Cat # AT4386a)

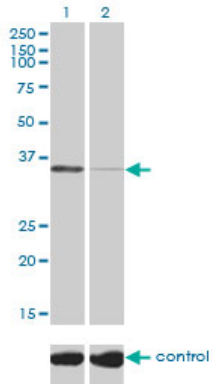


Western Blot analysis of TSTA3 expression in transfected 293T cell line by TSTA3 monoclonal antibody (M01), clone 2B9.

Lane 1: TSTA3 transfected lysate(35.9 KDa).
Lane 2: Non-transfected lysate.



Detection limit for recombinant GST tagged TSTA3 is 0.3 ng/ml as a capture antibody.



Western blot analysis of TSTA3 over-expressed 293 cell line, cotransfected with TSTA3 Validated Chimera RNAi ((Cat # AT4386a)