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TSTA3 Antibody (monoclonal) (M01)

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

Specification

TSTA3 Antibody (monoclonal) (M01) - Product Information

Application	**WB, E**
Primary Accession	Q13630
Other Accession	NM_003313
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG3 Kappa**
Calculated MW	**35893**

TSTA3 Antibody (monoclonal) (M01) - 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

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.

TSTA3 Antibody (monoclonal) (M01) - Protocols

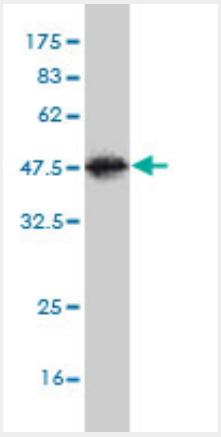
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides

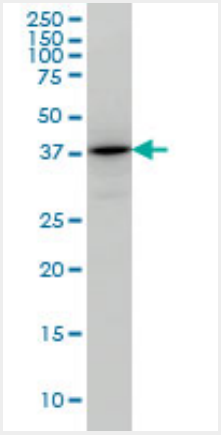
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- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

TSTA3 Antibody (monoclonal) (M01) - Images

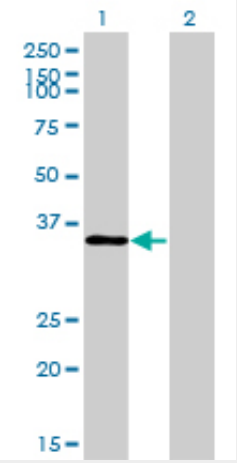


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.74 KDa) .



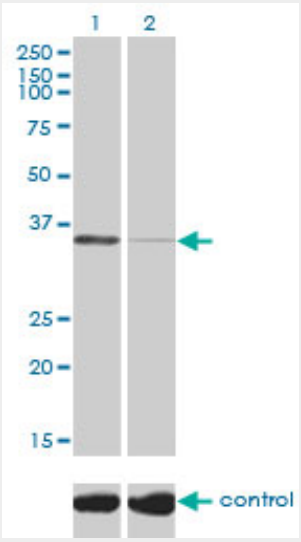
TSTA3 monoclonal antibody (M01), clone 2B9 Western Blot analysis of TSTA3 expression in HeLa ((Cat # AT4386a)

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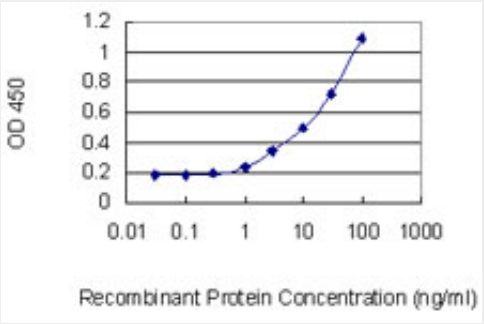


Western Blot analysis of TSTA3 expression in transfected 293T cell line by TSTA3 monoclonal antibody (M01), clone 2B9.

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



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



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

TSTA3 Antibody (monoclonal) (M01) - 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.

TSTA3 Antibody (monoclonal) (M01) - 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.