10320 Camino Santa Fe, Suite G
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TIMM8A Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant TIMM8A.

Catalog # AT4239a

Specification

TIMM8A Antibody (monoclonal) (M01) - Product Information

Application	**WB, IHC, E**
Primary Accession	O60220
Other Accession	NM_004085
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG2a Kappa**
Calculated MW	**10998**

TIMM8A Antibody (monoclonal) (M01) - Additional Information

Gene ID 1678

Other Names
Mitochondrial import inner membrane translocase subunit Tim8 A, Deafness dystonia protein 1, X-linked deafness dystonia protein, TIMM8A, DDP, DDP1, TIM8A

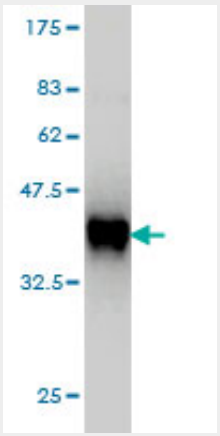
Target/Specificity
TIMM8A (NP_004076, 9 a.a. ~ 97 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution
WB~~1:500~1000

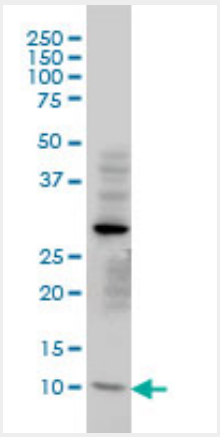
Format
Clear, colorless solution in phosphate buffered saline, pH 7.2 .

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

Precautions
TIMM8A Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (35.53 KDa) .



TIMM8A monoclonal antibody (M01), clone 2F11 Western Blot analysis of TIMM8A expression in HeLa ((Cat # AT4239a)

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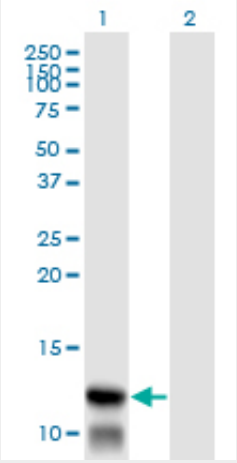
TIMM8A Antibody (monoclonal) (M01) - Protocols

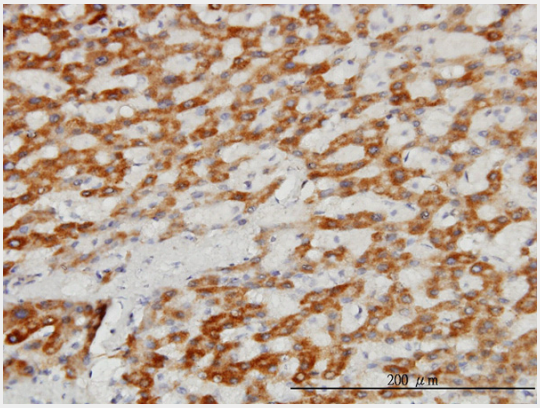
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

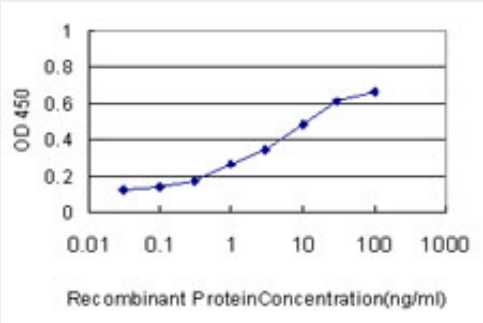


Western Blot analysis of TIMM8A expression in transfected 293T cell line by TIMM8A monoclonal antibody (M01), clone 2F11.

Lane 1: TIMM8A transfected lysate(11 KDa).
Lane 2: Non-transfected lysate.



Immunoperoxidase of monoclonal antibody to TIMM8A on formalin-fixed paraffin-embedded human liver. [antibody concentration 3 ug/ml]



Detection limit for recombinant GST tagged TIMM8A is approximately 0.3ng/ml as a capture antibody.

TIMM8A Antibody (monoclonal) (M01) - Background

This translocase is involved in the import and insertion of hydrophobic membrane proteins from the cytoplasm into the mitochondrial inner membrane. The gene is mutated in Mohr-Tranebjaerg syndrome/Deafness Dystonia Syndrome (MTS/DDS) and it is postulated that MTS/DDS is a mitochondrial disease caused by a defective mitochondrial protein import system. Defects in this gene also cause Jensen syndrome; an X-linked disease with opticoacoustic nerve atrophy and muscle weakness. This protein, along with TIMM13, forms a 70 kDa heterohexamer. Alternative splicing results in multiple transcript variants encoding distinct isoforms.

TIMM8A Antibody (monoclonal) (M01) - References

Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.Gene-centric association signals for lipids and apolipoproteins identified via the HumanCVD BeadChip. Talmud PJ, et al. Am J Hum Genet, 2009 Nov. PMID 19913121.Defining the human deubiquitinating enzyme interaction landscape. Sowa ME, et al. Cell, 2009 Jul 23. PMID 19615732.Toward a confocal subcellular atlas of the human proteome. Barbe L, et al. Mol Cell Proteomics, 2008 Mar. PMID 18029348.Molecular genetics of a patient with Mohr-Tranebjaerg Syndrome due to a new mutation in the DDP1 gene. Blesa JR, et al. Neuromolecular Med, 2007. PMID 17999202.