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PMM2 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant PMM2.
Catalog # AT3355a

Specification

PMM2 Antibody (monoclonal) (M01) - Product Information

Application	**WB, E**
Primary Accession	O15305
Other Accession	NM_000303
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG2b Kappa**
Calculated MW	**28082**

PMM2 Antibody (monoclonal) (M01) - Additional Information

Gene ID 5373

Other Names
Phosphomannomutase 2, PMM 2, PMM2

Target/Specificity
PMM2 (NP_000294, 47 a.a. ~ 111 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
PMM2 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

PMM2 Antibody (monoclonal) (M01) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry

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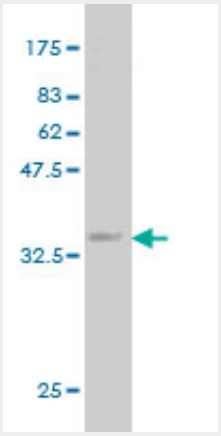
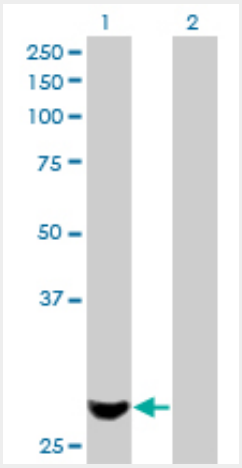
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PMM2 Antibody (monoclonal) (M01) - Images

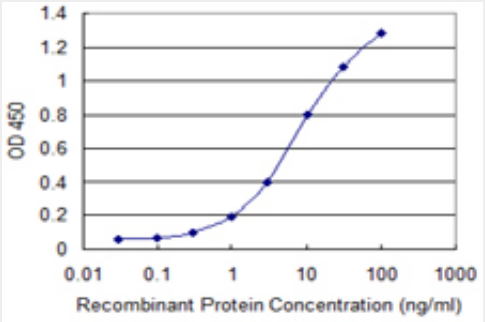


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (32.89 KDa) .



Western Blot analysis of PMM2 expression in transfected 293T cell line by PMM2 monoclonal antibody (M01), clone 2E9.

Lane 1: PMM2 transfected lysate(28.1 KDa).
Lane 2: Non-transfected lysate.



Detection limit for recombinant GST tagged PMM2 is 0.1 ng/ml as a capture antibody.

PMM2 Antibody (monoclonal) (M01) - Background

The protein encoded by this gene catalyzes the isomerization of mannose 6-phosphate to mannose 1-phosphate, which is a precursor to GDP-mannose necessary for the synthesis of dolichol-P-oligosaccharides. Mutations in this gene have been shown to cause defects in glycoprotein biosynthesis, which manifests as carbohydrate-deficient glycoprotein syndrome type I.

PMM2 Antibody (monoclonal) (M01) - References

Functional analysis of three splicing mutations identified in the PMM2 gene: toward a new therapy for congenital disorder of glycosylation type Ia. Vega AI, et al. Hum Mutat, 2009 May. PMID 19235233.Primary skeletal dysplasia as a major manifesting feature in an infant with congenital disorder of glycosylation type Ia. Coman D, et al. Am J Med Genet A, 2008 Feb 1. PMID 18203160.Cerebellar ataxia and congenital disorder of glycosylation Ia (CDG-Ia) with normal routine CDG screening. Vermeer S, et al. J Neurol, 2007 Oct. PMID 17694350.Congenital disorder of glycosylation type 1a: three siblings with a mild neurological phenotype. Coman D, et al. J Clin Neurosci, 2007 Jul. PMID 17451957.Characterization of two unusual truncating PMM2 mutations in two CDG-Ia patients. Schollen E, et al. Mol Genet Metab, 2007 Apr. PMID 17307006.