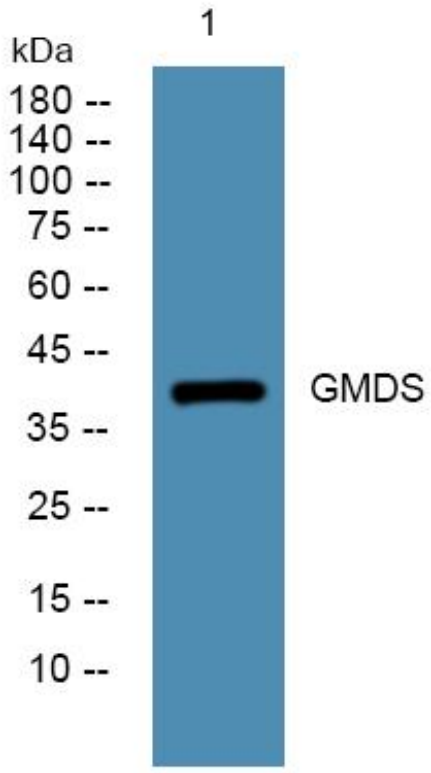
GMDS Monoclonal Antibody

Catalog No	YP-mAb-05599
Isotype	IgG
Reactivity	Human;Mouse
Applications	WB
Gene Name	GMDS
Protein Name	GDP-mannose 4,6 dehydratase (EC 4.2.1.47) (GDP-D-mannose dehydratase) (GMD)
Immunogen	Synthesized peptide derived from part region of human protein
Specificity	GMDS Monoclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	
Observed Band	40kD
Cell Pathway	cytoplasm,cytosol,extracellular exosome,
Tissue Specificity	Highly expressed in pancreas and small intestine. Expressed in thymus, protstate, colon, heart, placenta, liver and kidney. Expressed at low levels in spleen, testis, brain and lung.
Function	catalytic activity:GDP-mannose = GDP-4-dehydro-6-deoxy-D-mannose + H(2)O.,cofactor:NADP.,function:Conversion of GDP-D-mannose to GDP-4-keto-6-D-deoxymannose.,pathway:Nucleotide-sugar biosynthesis; GDP-L-fucose biosynthesis via de novo pathway; GDP-L-fucose from GDP-D-mannose: step 1/2.,similarity:Belongs to the GDP-mannose 4,6-dehydratase family.,
Background	GDP-mannose 4,6-dehydratase (GMD; EC 4.2.1.47) catalyzes the conversion of GDP-mannose to GDP-4-keto-6-deoxymannose, the first step in the synthesis of GDP-fucose from GDP-mannose, using NADP+ as a cofactor. The second and third steps of the pathway are catalyzed by a single enzyme, GDP-keto-6-deoxymannose 3,5-epimerase, 4-reductase, designated FX in humans (MIM 137020).[supplied by OMIM, Aug 2009],

matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using GMDS Monoclonal Antibody