

GMDS Rabbit pAb

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Catalog # AP55162

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	O60547
Predicted	Rat, Dog, Human, Mouse, Rabbit, Zebrafish, Chicken, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	41950
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human GMDS
Epitope Specificity	201-300/372
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	GMD is a 372 amino acid protein that utilizes NADP as a cofactor to catalyze the conversion of GDP-mannose to GDP-4-keto-6-deoxymannose. GMD mutations are involved in resistance to TRAIL (tumor necrosis factor-related apoptosis-inducing ligand)-induced apoptosis. The gene encoding GMD maps to human chromosome 6, which contains 170 million base pairs and comprises nearly 6% of the human genome. Deletion of a portion of the q arm of chromosome 6 is associated with early onset intestinal cancer, suggesting the presence of a cancer susceptibility locus. Additionally, Porphyria cutanea tarda, Parkinson's disease, Stickler syndrome and a susceptibility to bipolar disorder are all associated with genes that map to chromosome 6.

Additional Information

Gene ID	2762
Other Names	GDP-mannose 4, 6 dehydratase, 4.2.1.47, GDP-D-mannose dehydratase, GMD, GMDS (HGNC:4369)
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	GMDS (HGNC:4369)
Function	Catalyzes the conversion of GDP-D-mannose to GDP-4-dehydro-6-deoxy-D-mannose.
Tissue Location	Highly expressed in pancreas and small intestine. Expressed in thymus, prostate, colon, heart, placenta, liver and kidney. Expressed at low levels in spleen, testis, brain and lung

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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.