

## **GMDS Polyclonal Antibody**

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP55162

# **Specification**

## **GMDS Polyclonal Antibody - Product Information**

Application WB, IHC-P, IHC-F, IF, ICC, E

Primary Accession
Reactivity
Rat, Dog
Host
Clonality
Polyclonal
Calculated MW
42 KDa

Physical State
Liquid
Immunogen
KLH conjugated synthetic peptide derived

from human GMDS

Epitope Specificity 201-300/372

Isotype IgG

affinity purified by Protein A

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02%

SIMILARITY Proclin300 and 50% Glycerol.

Belongs to the GDP-mannose

4,6-dehydratase family.

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.

### **GMDS Polyclonal Antibody - Additional Information**

#### **Gene ID 2762**

## **Other Names**

GDP-mannose 4, 6 dehydratase, 4.2.1.47, GDP-D-mannose dehydratase, GMD, GMDS

### **Dilution**

<span class ="dilution WB">WB~~1:1000/>span class

="dilution\_IHC-P">IHC-P~~N/A</span><br \><span class

="dilution\_IHC-F">IHC-F~~N/A</span><br \><span class

="dilution\_IF">IF~~1:50~200</span><br \> < span class = "dilution\_ICC">ICC~~N/A</span> < br \> < span class = "dilution\_ICC">ICC~~N/A</span> < span class = "dilution\_ICC">ICC~~N/A</span > < span class = "dilution\_ICC">ICC~



\><span class ="dilution E">E~~N/A</span>

### **Storage**

Store at -20  $^{\circ}$ 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  $^{\circ}$ C.

# **GMDS Polyclonal Antibody - 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, protstate, colon, heart, placenta, liver and kidney. Expressed at low levels in spleen, testis, brain and lung

# **GMDS Polyclonal Antibody - Protocols**

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

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

**GMDS Polyclonal Antibody - Images**