

**GMDS Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP9496c****Specification**

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**GMDS Antibody (Center) Blocking Peptide - Product Information**Primary Accession [O60547](#)**GMDS Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 2762**Other Names**

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

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**GMDS Antibody (Center) Blocking Peptide - 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

**GMDS Antibody (Center) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**GMDS Antibody (Center) Blocking Peptide - Images****GMDS Antibody (Center) Blocking Peptide - 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<sup>+</sup> 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).

#### **GMDS Antibody (Center) Blocking Peptide - References**

Mungall, A.J., et al. Nature 425(6960):805-811(2003)Roos, C., et al. J. Biol. Chem. 277(5):3168-3175(2002)Eshel, R., et al. Cell. Immunol. 213(2):141-148(2001)