

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

GMDS Antibody (Center) Blocking Peptide - Product InformationPrimary 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⁺ 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)