

GPD1L Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP10723a

Specification

GPD1L Antibody (N-term) Blocking peptide - Product Information

Primary Accession [Q8N335](#)

GPD1L Antibody (N-term) Blocking peptide - Additional Information

Gene ID 23171

Other Names

Glycerol-3-phosphate dehydrogenase 1-like protein, GPD1-L, GPD1L, KIAA0089

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.

GPD1L Antibody (N-term) Blocking peptide - Protein Information

Name GPD1L ([HGNC:28956](#))

Synonyms KIAA0089

Function

Plays a role in regulating cardiac sodium current; decreased enzymatic activity with resulting increased levels of glycerol 3- phosphate activating the DPD1L-dependent SCN5A phosphorylation pathway, may ultimately lead to decreased sodium current; cardiac sodium current may also be reduced due to alterations of NAD(H) balance induced by DPD1L.

Cellular Location

Cytoplasm. Note=Localized to the region of the plasma membrane

Tissue Location

Most highly expressed in heart tissue, with lower levels in the skeletal muscle, kidney, lung and other organs

GPD1L Antibody (N-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

GPD1L Antibody (N-term) Blocking peptide - Images

GPD1L Antibody (N-term) Blocking peptide - Background

The protein encoded by this gene catalyzes the conversion of sn-glycerol 3-phosphate to glycerone phosphate. The encoded protein is found in the cytoplasm, associated with the plasma membrane, where it binds the sodium channel, voltage-gated, type V, alpha subunit (SCN5A). Defects in this gene are a cause of Brugada syndrome type 2 (BRS2) as well as sudden infant death syndrome (SIDS).

GPD1L Antibody (N-term) Blocking peptide - References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) ; Liu, M., et al. Circ. Res. 105(8):737-745(2009) ; Valdivia, C.R., et al. Am. J. Physiol. Heart Circ. Physiol. 297 (4), H1446-H1452 (2009) ; Makiyama, T., et al. Circ. J. 72(10):1705-1706(2008) ; London, B., et al. Circulation 116(20):2260-2268(2007)