

GDI2 Antibody (Center) Blocking peptide
Synthetic peptide
Catalog # BP13787c**Specification**

GDI2 Antibody (Center) Blocking peptide - Product InformationPrimary Accession [P50395](#)**GDI2 Antibody (Center) Blocking peptide - Additional Information****Gene ID** 2665**Other Names**

Rab GDP dissociation inhibitor beta, Rab GDI beta, Guanosine diphosphate dissociation inhibitor 2, GDI-2, GDI2, RABGDIB

Target/Specificity

The synthetic peptide sequence used to generate the antibody AP13787c was selected from the Center region of GDI2. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

GDI2 Antibody (Center) Blocking peptide - Protein Information**Name** GDI2**Synonyms** RABGDIB**Function**

GDP-dissociation inhibitor preventing the GDP to GTP exchange of most Rab proteins. By keeping these small GTPases in their inactive GDP-bound form regulates intracellular membrane trafficking (PubMed: 25860027). Negatively regulates protein transport to the cilium and ciliogenesis through the inhibition of RAB8A (PubMed: 25860027).

Cellular Location

Cytoplasm. Membrane; Peripheral membrane protein

Tissue Location

Ubiquitous..

GDI2 Antibody (Center) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

GDI2 Antibody (Center) Blocking peptide - Images**GDI2 Antibody (Center) Blocking peptide - Background**

GDP dissociation inhibitors are proteins that regulate the GDP-GTP exchange reaction of members of the rab family, small GTP-binding proteins of the ras superfamily, that are involved in vesicular trafficking of molecules between cellular organelles. GDIs slow the rate of dissociation of GDP from rab proteins and release GDP from membrane-bound rabs. GDI2 is ubiquitously expressed. The GDI2 gene contains many repetitive elements indicating that it may be prone to inversion/deletion/rearrangements. Alternative splicing results in multiple transcript variants encoding distinct isoforms.

GDI2 Antibody (Center) Blocking peptide - References

Rikova, K., et al. Cell 131(6):1190-1203(2007) Sun, Z.L., et al. Biochim. Biophys. Acta 1774(6):764-771(2007) Sugiyama, N., et al. Mol. Cell Proteomics 6(6):1103-1109(2007) Grupe, A., et al. Am. J. Hum. Genet. 78(1):78-88(2006) Shin, B.K., et al. J. Biol. Chem. 278(9):7607-7616(2003)