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# GDI2 Antibody (Center) Blocking peptide

**Synthetic peptide**
**Catalog # BP13787c**

## Specification

### GDI2 Antibody (Center) Blocking peptide - Product Information

Primary 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:<a href="http://www.uniprot.org/citations/25860027" target="_blank">25860027</a>). Negatively regulates protein transport to the cilium and ciliogenesis through the inhibition of RAB8A (PubMed:<a href="http://www.uniprot.org/citations/25860027" target="_blank">25860027</a>).

**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 theGDP-GTP exchange reaction of members of the rab family, smallGTP-binding proteins of the ras superfamily, that are involved invesicular trafficking of molecules between cellular organelles.GDIs slow the rate of dissociation of GDP from rab proteins andrelease GDP from membrane-bound rabs. GDI2 is ubiquitouslyexpressed. The GDI2 gene contains many repetitive elementsindicating that it may be prone to inversion/deletionrearrangements. Alternative splicing results in multiple transcriptvariants 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)