

**PLEKHG5 Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP17282a****Specification**

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**PLEKHG5 Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [O94827](#)**PLEKHG5 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 57449**Other Names**

Pleckstrin homology domain-containing family G member 5, PH domain-containing family G member 5, Guanine nucleotide exchange factor 720, GEF720, PLEKHG5, KIAA0720

**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.

**PLEKHG5 Antibody (N-term) Blocking Peptide - Protein Information****Name** PLEKHG5**Synonyms** KIAA0720**Function**

Functions as a guanine exchange factor (GEF) for RAB26 and thus regulates autophagy of synaptic vesicles in axon terminal of motoneurons (By similarity). Involved in the control of neuronal cell differentiation (PubMed:<a href="http://www.uniprot.org/citations/11704860" target="\_blank">11704860</a>). Plays a role in angiogenesis through regulation of endothelial cells chemotaxis. Affects also the migration, adhesion, and matrix/bone degradation in macrophages and osteoclasts (PubMed:<a href="http://www.uniprot.org/citations/23777631" target="\_blank">23777631</a>).

**Cellular Location**

Cytoplasm {ECO:0000250|UniProtKB:Q66T02}. Cytoplasm, perinuclear region {ECO:0000250|UniProtKB:Q66T02}. Cell membrane {ECO:0000250|UniProtKB:Q66T02}. Cell junction {ECO:0000250|UniProtKB:Q66T02}. Cell projection, lamellipodium {ECO:0000250|UniProtKB:Q66T02}. Note=Predominantly cytoplasmic, however when endothelial cells are stimulated with lysophosphatidic acid, PLEKHG5 is found in perinuclear regions and at the cell membrane Localizes at cell-cell junctions in quiescent endothelial cells, and relocalizes to

cytoplasmic vesicle and the leading edge of lamellipodia in migrating endothelial cells.  
{ECO:0000250|UniProtKB:Q66T02}

**Tissue Location**

Predominantly expressed in the peripheral nervous system and brain. Highest expression is observed in heart, lung, kidney, testis and moderate expression is present in spleen, pancreas, skeletal muscle, ovary and liver. Weakly expressed in glioblastoma (GBM) cell lines.

**PLEKHG5 Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**PLEKHG5 Antibody (N-term) Blocking Peptide - Images****PLEKHG5 Antibody (N-term) Blocking Peptide - Background**

This gene encodes a protein that activates the nuclearfactor kappa B (NFKB1) signaling pathway. Mutations in this gene have been found in a family with distal spinal muscular atrophy.

**PLEKHG5 Antibody (N-term) Blocking Peptide - References**

Hosgood, H.D. III, et al. Occup Environ Med 66(12):848-853(2009) Newton-Cheh, C., et al. Nat. Genet. 41(4):399-406(2009) Maystadt, I., et al. Am. J. Hum. Genet. 81(1):67-76(2007) Rabizadeh, S., et al. Cytokine Growth Factor Rev. 14 (3-4), 225-239 (2003) :Matsuda, A., et al. Oncogene 22(21):3307-3318(2003)