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PLEKHG5 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17282a

Specification

PLEKHG5 Antibody (N-term) - Product Information

Application	**WB,E**
Primary Accession	O94827
Other Accession	Q6RFZ7, Q66T02, NP_001036128.1, NP_001036129.1
Reactivity	**Human**
Predicted	**Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**111231**
Antigen Region	**175-202**

PLEKHG5 Antibody (N-term) - 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

Target/Specificity
This PLEKHG5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 175-202 amino acids from the N-terminal region of human PLEKHG5.

Dilution
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
PLEKHG5 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

PLEKHG5 Antibody (N-term) - Protein Information

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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:11704860). Plays a role in angiogenesis through regulation of endothelial cells chemotaxis. Also affects the migration, adhesion, and matrix/bone degradation in macrophages and osteoclasts (PubMed:23777631).

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}

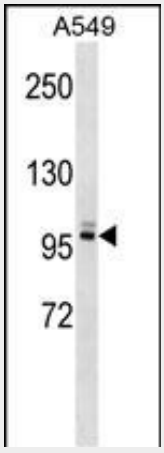
Tissue Location
Predominantly expressed in the peripheral nervous system and brain. Highest expression is observed in heart, lung, kidney, testis and moderate expression is present in spleen, pancreas, skeletal muscle, ovary and liver. Weakly expressed in glioblastoma (GBM) cell lines.

PLEKHG5 Antibody (N-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PLEKHG5 Antibody (N-term) - Images



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PLEKHG5 Antibody (N-term) (Cat. #AP17282a) western blot analysis in A549 cell line lysates (35ug/lane).This demonstrates the PLEKHG5 antibody detected the PLEKHG5 protein (arrow).

PLEKHG5 Antibody (N-term) - Background

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

PLEKHG5 Antibody (N-term) - 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)