

Rabbit anti-Human PLEKHG4 Polyclonal Antibody | anti-PLEKHG4 antibody

Anti-PLEKHG4 Antibody Picoband

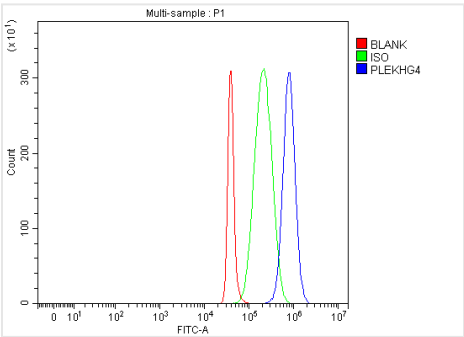
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127641	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

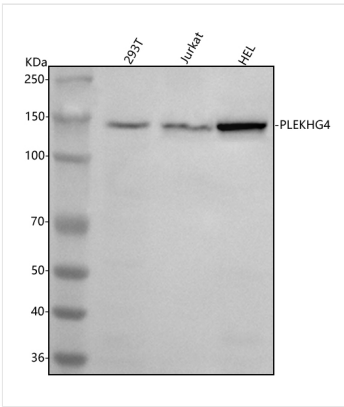
PLEKHG4; Polyclonal Antibody; Anti-PLEKHG4 Antibody Picoband; Serine/threonine-protein kinase AtPK1/AtPK6; 70 kDa ribosomal protein S6 kinase 1 antibody; KS6B1_HUMAN antibody; p70 alpha antibody; P70 beta 1 antibody; p70 ribosomal S6 kinase alpha antibody; p70 ribosomal S6 kinase beta 1 antibody; p70 S6 kinase alpha antibody; P70 S6 Kinase antibody; p70 S6 kinase alpha 1 antibody; p70 S6 kinase alpha 2 antibody; p70 S6K antibody; p70 S6K-alpha antibody; p70 S6KA antibody; p70(S6K) alpha antibody; p70(S6K)-alpha antibody; p70-alpha antibody; p70-S6K 1 antibody; p70-S6K antibody; P70S6K antibody; P70S6K1 antibody; p70S6Kb antibody; PS6K antibody; Ribosomal protein S6 kinase 70kDa polypeptide 1 antibody; Ribosomal protein S6 kinase beta 1 antibody; Ribosomal protein S6 kinase beta-1 antibody; Ribosomal protein S6 kinase I antibody; RPS6KB1 antibody; S6K antibody; S6K-beta-1 antibody; S6K1 antibody; Serine/threonine kinase 14 alpha antibody; Serine/threonine-protein kinase 14A antibody; STK14A antibody; anti-PLEKHG4 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	Expressed in all tissues.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Applicable Applications for anti- PLEKHG4 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human PLEKHG4 recombinant protein (Position: R22-E1140).
Subcellular Localization	Cytoplasm, Nucleus
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross reactivity with other proteins.
Protein Function	Downstream effector of TOR signaling pathway involved in osmotic stress response. Could be involved in the control of plant growth and development. Phosphorylates the ribosomal proteins P14, P16 and S6. Functions as a repressor of cell proliferation and required for maintenance of chromosome stability and ploidy levels through the RBR1-E2F pathway.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)
Figure 2. Flow Cytometry analysis of SH-SY5Y cells using anti-PLEKHG4 antibody (AAA127641). Overlay histogram showing SH-SY5Y cells stained with AAA127641 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-PLEKHG4 Antibody (AAA127641, 1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)
Figure 1. Western blot analysis of PLEKHG4 using anti-PLEKHG4 antibody (AAA127641). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human 293T whole cell lysates, Lane 2: human Jurkat whole cell lysates, Lane 3: human HEL whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-PLEKHG4 antigen affinity purified polyclonal antibody (#AAA127641) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for PLEKHG4 at approximately 140 kDa. The expected band size for PLEKHG4 is at 131 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti- PLEKHG4 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti- PLEKHG4 antibody	Primary Antibodies; Signal Transduction; Signaling Pathway; Small G Proteins
References	1. Amino, T., Ishikawa, K., Toru, S., Ishiguro, T., Sato, N., Tsunemi, T., Murata, M., Kobayashi, K., Inazawa, J., Toda, T., Mizusawa, H. Redefining the disease locus of 16q22.1-linked autosomal dominant cerebellar ataxia. J. Hum. Genet. 52: 643-649, 2007. 2. Ishikawa, K., Toru, S., Tsunemi, T., Li, M., Kobayashi, K., Yokota, T., Amino, T., Owada, K., Fujigasaki, H., Sakamoto, M., Tomimitsu, H., Takashima, M., and 15 others. An autosomal dominant cerebellar ataxia linked to chromosome 16q22.1 is associated with a single-nucleotide substitution in the 5-prime untranslated region of the gene encoding a protein with spectrin repeat and Rho guanine-nucleotide exchange-factor domains. Am. J. Hum. Genet. 77: 280-296, 2005.3. Lim, J., Hao, T., Shaw, C., Patel, A. J., Szabo, G., Rual, J.-F., Fisk, C. J., Li, N., Smolyar, A., Hill, D. E., Barabasi, A.-L., Vidal, M., Zoghbi, H. Y. A protein-protein interaction network for human inherited ataxias and disorders of Purkinje cell degeneration. Cell 125: 801-814, 2006.

NCBI AND UNIPROT INFORMATION

NCBI GI #	193211594
NCBI GeneID	25894
NCBI Accession #	NP_001123199.1
NCBI GenBank Nucleotide #	NM_001129727.1
UniProt Accession #	Q58EX7; Q4GQJ8; Q4H485; Q56A69; Q9H7K4; Q9UFW0
Molecular Weight	130,803 Da
NCBI Official Full Name	puratrophin-1 isoform 1

NCBI Official Synonym Full Names	pleckstrin homology domain containing, family G (with RhoGef domain) member 4
NCBI Official Symbol	PLEKHG4
NCBI Official Synonym Symbols	SCA4; PRTPHN1; ARHGEF44
NCBI Protein Information	puratrophin-1; PH domain-containing family G member 4; Purkinje cell atrophy associated protein 1; Purkinje cell atrophy-associated protein 1; pleckstrin homology domain-containing family G member 4
UniProt Protein Name	Puratrophin-1
UniProt Gene Name	PLEKHG4
UniProt Synonym Gene Names	PRTPHN1; PH domain-containing family G member 4
UniProt Entry Name	PKHG4_HUMAN

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/plekhg4-antibody-flow-cytometry-western-blot-elisa/127641>