

Rabbit anti-Human SAMD9L Polyclonal Antibody | anti-SAMD9L antibody

Anti-SAMD9L Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19973	Rabbit	Human	ELISA, Immunofluorescence, Immunohistochemistry, Western Blot, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

SAMD9L; Polyclonal Antibody; Anti-SAMD9L 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-SAMD9L 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-SAMD9L antibody	ELISA, IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot), FCM/FACS (Flow Cytometry)
Application Notes	WB: 0.25-0.5ug/ml, Human IHC: 2-5ug/ml, Human IF: 5ug/ml, Human FC/FACS (Fixed): 1-3ug/1x10 ⁶ cells, Human ELISA: 0.1-0.5ug/ml
Immunogen	E coli-derived human SAMD9L recombinant protein (Position: L1223-R1557). Human SAMD9L shares 69.3% amino acid (aa) sequence identity with mouse SAMD9L, respectively.
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 (Flow Cytometry)

Figure 17. Flow Cytometry analysis of U251 cells using anti-SAMD9L antibody (AAA19973). Overlay histogram showing U251 cells stained with AAA19973 (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-SAMD9L Antibody (AAA19973, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10ug/1x106 cells) 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.



IF (Immunofluorescence)

Figure 16. IF analysis of SAMD9L using anti-SAMD9L antibody (AAA19973).SAMD9L was detected in a paraffin-embedded section of human placenta tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 5ug/mL rabbit anti-SAMD9L Antibody (AAA19973) overnight at 4 degree C. DyLight®594 Conjugated Goat Anti-Rabbit IgG (BA1141) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

ADDITIONAL INFORMATION

Related Product Information for anti-SAMD9L 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-SAMD9L antibody	Primary Antibodies; Signal Transduction; Signaling Pathway; Small G Proteins
References	1. Asou, H., Matsui, H., Ozaki, Y., Nagamachi, A., Nakamura, M., Aki, D., Inaba, T. Identification of a common microdeletion cluster in 7q21.3 subband among patients with myeloid leukemia and myelodysplastic syndrome. Biochem. Biophys. Res. Commun. 383: 245-251, 2009.2. Chen, D.-H., Below, J. E., Shimamura, A., Keel, S. B., Matsushita, M., Wolff, J., Sul, Y., Bonkowski, E., Castella, M., Taniguchi, T., Nickerson, D., Papayannopoulou, T., Bird, T. D., Raskind, W. H. Ataxia-pancytopenia syndrome is caused by missense mutations in SAMD9L. Am. J. Hum. Genet. 98: 1146-1158, 2016. 3. Corral-Juan, M., Casquero, P., Giraldo-Restrepo, N., Laurie, S., Martinez-Pineiro, A., Mateo-Montero, R. C., Ispuerto, L., Vilas, D., Tolosa, E., Volpini, V., Alvarez-Ramo, R., Sanchez, I., Matilla-Duenas, A. New spinocerebellar ataxia subtype caused by SAMD9L mutation triggering mitochondrial dysregulation (SCA49). Brain Commun. 4: fcac030, 2022.

NCBI AND UNIPROT INFORMATION

NCBI GI #	117558792
NCBI GeneID	219285
UniProt Accession #	Q8IVG5; Q2TV71; Q2TV75; Q2UZV8; Q8IWI4; Q8N3L9; Q8N875; A0JP23; A0JP24; A0PJG8; A4D1G8; D6W5Q6
Molecular Weight	184,533 Da
NCBI Official Full Name	SAMD9L protein
NCBI Official Synonym Full Names	sterile alpha motif domain containing 9-like
NCBI Official Symbol	SAMD9L
NCBI Official Synonym Symbols	UEF1; DRIF2; C7orf6
NCBI Protein Information	sterile alpha motif domain-containing protein 9-like; SAM domain-containing protein 9-like
UniProt Protein Name	Sterile alpha motif domain-containing protein 9-like
UniProt Gene Name	SAMD9L
UniProt Synonym Gene Names	C7orf6; DRIF2; KIAA2005; UEF; SAM domain-containing protein 9-like
UniProt Entry Name	SAM9L_HUMAN

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