

Rabbit SMURF1 Polyclonal Antibody | anti-SMURF1 antibody

SMURF1 Antibody (N-term)

CATALOG # AAA284499	HOST Rabbit	REACTIVITY Human, mouse (Predicted Reactivity: Xenopus, Zebrafish)	APPLICATIONS Western Blot, Immunohistochemistry, ELISA
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PRODUCT SYNONYMS

SMURF1; Polyclonal Antibody; SMURF1 Antibody (N-term); E3 ubiquitin-protein ligase SMURF1; hSMURF1; 632-; SMAD ubiquitination regulatory factor 1; SMAD-specific E3 ubiquitin-protein ligase 1; KIAA1625; anti-SMURF1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, mouse (Predicted Reactivity: Xenopus, Zebrafish)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This SMURF1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 66-96 amino acids from the N-terminal region of human SMURF1.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Concentration	Vial Concentration: 2 (varies by lot)
Sequence Positions	66-96
Sequence Length	731
Applicable Applications for anti-SMURF1 antibody	WB (Western Blot), IHC (Immunohistochemistry), ELISA
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



IHC (Immunohistochemistry)

Formalin-fixed and paraffin-embedded human Testis tissue reacted with hSMURF1-W81, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



IHC (Immunohistochemistry)

Formalin-fixed and paraffin-embedded human breast carcinoma tissue reacted with hSMURF1-W81, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



WB (Western Blot)

Western blot analysis of anti-SMURF1 Pab in mouse kidney tissue lysate (35ug/lane).
SMURF1(arrow) was detected using the purified Pab.

ADDITIONAL INFORMATION

Related Product Information for anti-SMURF1 antibody	Members of the transforming growth factor-beta (TGFB) family signal through type I and type II serine/threonine-kinase receptors, which in turn activate the SMAD signaling pathway. Bone morphogenetic protein (BMP) receptors target SMAD1, SMAD5, and SMAD8, whereas receptors for activin and TGFB (e.g., ACVR1 and TGFB1, respectively) target SMAD2 and SMAD3. Phosphorylation of these receptor-regulated SMADs induces their association with the common-partner SMAD, SMAD4. Smurf1, a HECT domain E3 ubiquitin ligase, regulates cell polarity and protrusive activity and is required to maintain the transformed morphology and motility of a tumor cell. Atypical protein kinase C-zeta (PKC2), an effector of the Cdc42/Rac1-PAR6 polarity complex, recruits Smurf1 to cellular protrusions, where it controlled the local level of RhoA. Smurf1 thus links the polarity complex to degradation of RhoA in lamellipodia and filopodia to prevent RhoA signaling during dynamic membrane movements.
Product Categories/Family for anti-SMURF1 antibody	Cell Biology
References	Tajima, Y., et al., J. Biol. Chem. 278(12):10716-10721 (2003). Suzuki, C., et al., J. Biol. Chem. 277(42):39919-39925 (2002). Ebisawa, T., et al., J. Biol. Chem. 276(16):12477-12480 (2001). Zhu, H., et al., Nature 400(6745):687-693 (1999). Lambris, J., et al., J. Immunol. Methods 27(1):55-59 (1979).

NCBI AND UNIPROT INFORMATION

NCBI GI #	315434204
NCBI GeneID	57154
NCBI Accession #	NP_001186776.1; NP_065162.1; NP_851994.1
NCBI GenBank Nucleotide #	NM_001199847.1
UniProt Accession #	Q9HCE7; O75853; Q547Q3; Q9UJT8; A4D279; B7ZMB6; B9EGV3
Molecular Weight	86114
NCBI Official Full Name	E3 ubiquitin-protein ligase SMURF1 isoform 3
NCBI Official Synonym Full Names	SMAD specific E3 ubiquitin protein ligase 1
NCBI Official Symbol	SMURF1
NCBI Protein Information	E3 ubiquitin-protein ligase SMURF1
UniProt Protein Name	E3 ubiquitin-protein ligase SMURF1
UniProt Gene Name	SMURF1
UniProt Synonym Gene Names	KIAA1625; hSMURF1
UniProt Entry Name	SMUF1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/smurf1-antibody-western-blot-immunohistochemistry-elisa/284499>