

SMURF1 Rabbit pAb

Catalog # AP99775

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q9HCE7
Other Accession	Q9HCE7
Host	Rabbit
Clonality	Polyclonal
Calculated MW	86114
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SMURF1
Epitope Specificity	65-170/757
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 C2 domain.Contains 1 HECT (E6AP-type E3 ubiquitin-protein ligase) domain.Contains 2 WW domains.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	E3 ubiquitin-protein ligase that acts as a negative regulator of BMP signaling pathway. Acts by mediating ubiquitination and degradation of SMAD1 and SMAD5, 2 receptor-regulated SMADs specific for the BMP pathway. Promotes ubiquitination and subsequent proteasomal degradation of TRAF family members.

Additional Information

Gene ID	57154
Other Names	4930431E10Rik; mKIAA1625; SMUF1_HUMAN; SMURF1; hSMURF1; HECT-type E3 ubiquitin transferase SMURF1; SMAD ubiquitination regulatory factor 1; SMAD-specific E3 ubiquitin-protein ligase 1; 2.3.2.26; KIAA1625; SMUF1_MOUSE; SMAD specific E3 ubiquitin protein ligase 1
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,WB=1:500-2000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	SMURF1
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Synonyms	KIAA1625
Function	E3 ubiquitin-protein ligase that acts as a negative regulator of BMP signaling pathway. Mediates ubiquitination and degradation of SMAD1 and SMAD5, 2 receptor-regulated SMADs specific for the BMP pathway. Promotes ubiquitination and subsequent proteasomal degradation of TRAF family members and RHOA. Promotes ubiquitination and subsequent proteasomal degradation of MAVS (PubMed: 23087404). Acts as a positive regulator of smoothened signaling pathway by mediating ubiquitination of PTCH1, leading to endocytosis and lysosomal degradation of PTCH1 (By similarity). Acts as an antagonist of TGF-beta signaling by ubiquitinating TGFBR1 and targeting it for degradation (PubMed: 21791611). Plays a role in dendrite formation by melanocytes (PubMed: 23999003).
Cellular Location	Cytoplasm. Cell membrane; Peripheral membrane protein; Cytoplasmic side
Tissue Location	Expressed in melanocytes (PubMed:23999003).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.