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SMURF1 Rabbit pAb

Catalog # AP99775

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q9HCE7
Other Accession	Q9HCE7
Reactivity	Rat, Human
Predicted	Pig, Mouse, Chicken, Dog, Horse
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
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'.