

Anti-SMURF1 Picoband Antibody
Catalog # ABO12578**Specification**

Anti-SMURF1 Picoband Antibody - Product Information

Application	WB
Primary Accession	Q9HCE7
Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for E3 ubiquitin-protein ligase SMURF1(SMURF1) detection. Tested with WB in Human;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-SMURF1 Picoband Antibody - Additional Information

Gene ID 57154

Other Names

E3 ubiquitin-protein ligase SMURF1, hSMURF1, 2.3.2.26, HECT-type E3 ubiquitin transferase SMURF1, SMAD ubiquitination regulatory factor 1, SMAD-specific E3 ubiquitin-protein ligase 1, SMURF1, KIAA1625

Calculated MW

86114 MW KDa

Application Details

Western blot, 0.1-0.5 µg/ml, Human, Rat

Subcellular Localization

Cytoplasm . Cell membrane ; Peripheral membrane protein ; Cytoplasmic side .

Tissue Specificity

Expressed in melanocytes (PubMed:23999003). .

Protein Name

E3 ubiquitin-protein ligase SMURF1

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen

A synthetic peptide corresponding to a sequence in the middle region of human SMURF1 (326-351aa DHNNRTTQFTDPRLLHHIMNHQCQLKE), identical to the related mouse sequence.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins.

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Anti-SMURF1 Picoband Antibody - 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 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

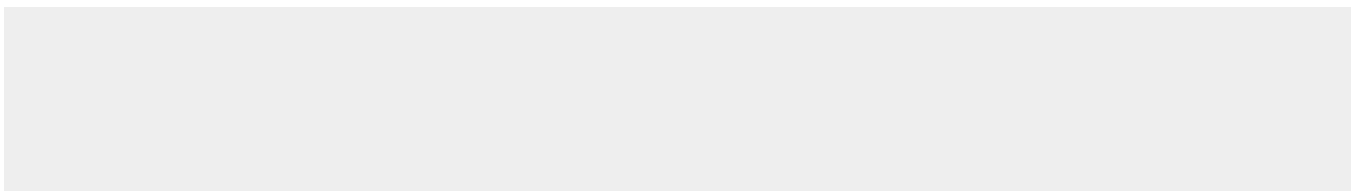
Tissue Location

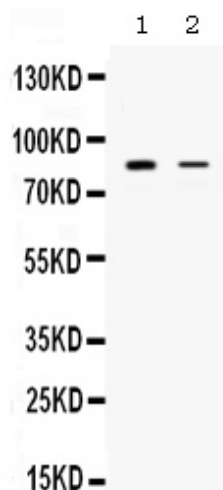
Expressed in melanocytes (PubMed:23999003).

Anti-SMURF1 Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-SMURF1 Picoband Antibody - Images



Western blot analysis of SMURF1 expression in rat brain extract (lane 1) and MCF-7 whole cell lysates (lane 2). SMURF1 at 86KD was detected using rabbit anti- SMURF1 Antigen Affinity purified polyclonal antibody (Catalog # ABO12578) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method .

Anti-SMURF1 Picoband Antibody - Background

E3 ubiquitin-protein ligase SMURF1 is an enzyme that in humans is encoded by the SMURF1 gene. It is mapped to 7q22.1. This gene encodes a ubiquitin ligase that is specific for receptor-regulated SMAD proteins in the bone morphogenetic protein (BMP) pathway. This protein plays a key roll in the regulation of cell motility, cell signalling, and cell polarity. Alternative splicing results in multiple transcript variants encoding different isoforms.