

SMURF1 Antibody (clone 1D7)
Mouse Monoclonal Antibody
Catalog # ALS14102**Specification**

SMURF1 Antibody (clone 1D7) - Product Information

Application	WB, IF, IP, IHC
Primary Accession	Q9HCE7
Reactivity	Human, Mouse
Host	Mouse
Clonality	Monoclonal
Calculated MW	86kDa KDa

SMURF1 Antibody (clone 1D7) - Additional Information**Gene ID** 57154**Other Names**

E3 ubiquitin-protein ligase SMURF1, hSMURF1, 6.3.2.-, SMAD ubiquitination regulatory factor 1, SMAD-specific E3 ubiquitin-protein ligase 1, SMURF1, KIAA1625

Target/Specificity

Human SMURF1

Reconstitution & Storage

Store at -20°C, avoid freeze thaw cycles.

Precautions

SMURF1 Antibody (clone 1D7) is for research use only and not for use in diagnostic or therapeutic procedures.

SMURF1 Antibody (clone 1D7) - 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

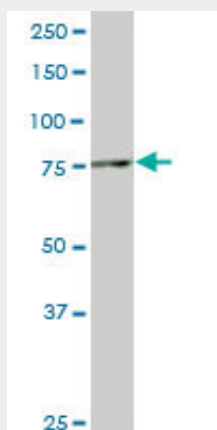
Tissue Location

Expressed in melanocytes (PubMed:23999003).

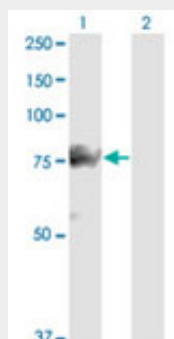
SMURF1 Antibody (clone 1D7) - Protocols

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

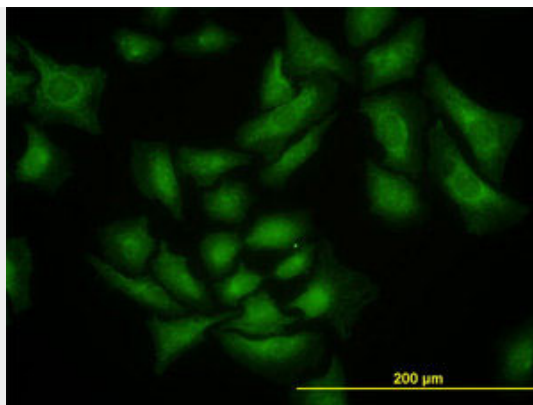
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

SMURF1 Antibody (clone 1D7) - Images

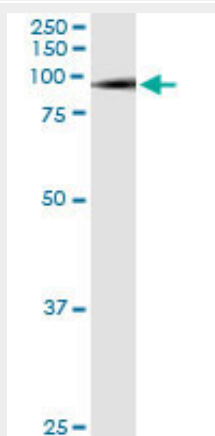
Western blot of SMURF1 expression in Raw 264.7 cells with SMURF1 monoclonal antibody, clone 1D7.



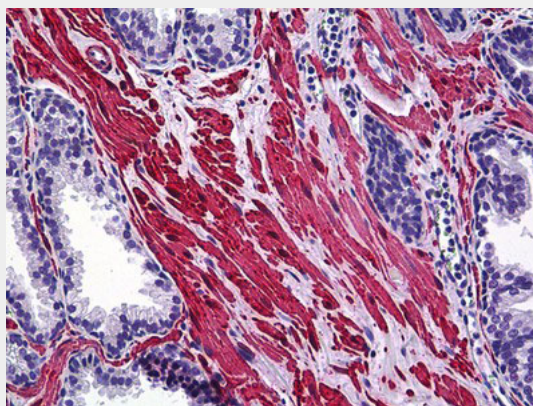
Western blot of SMURF1 expression in transfected 293T cell line by SMURF1 monoclonal antibody,...



Immunofluorescence of monoclonal antibody to SMURF1 on HeLa cell. [antibody concentration 10 ug/ml]



Immunoprecipitation of SMURF1 transfected lysate using anti-SMURF1 monoclonal antibody and...



Anti-SMURF1 antibody IHC of human prostate.

SMURF1 Antibody (clone 1D7) - Background

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.

SMURF1 Antibody (clone 1D7) - References

Nagase T.,et al.DNA Res. 7:273-281(2000).

Liang M.,et al.Submitted (JAN-2002) to the EMBL/GenBank/DDBJ databases.
Hillier L.W.,et al.Nature 424:157-164(2003).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
Scherer S.W.,et al.Science 300:767-772(2003).