

**SMURF2 Rabbit mAb**  
Catalog # AP77158**Specification****SMURF2 Rabbit mAb - Product Information**

Application	WB
Primary Accession	<a href="#">Q9HAU4</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	86196

**SMURF2 Rabbit mAb - Additional Information**

Gene ID 64750

**Other Names**  
SMURF2**Dilution**  
WB~~1/500-1/1000**Format**  
Liquid**SMURF2 Rabbit mAb - Protein Information**Name SMURF2 ([HGNC:16809](#))**Function**

E3 ubiquitin-protein ligase which accepts ubiquitin from an E2 ubiquitin-conjugating enzyme in the form of a thioester and then directly transfers the ubiquitin to targeted substrates (PubMed:[11016919](http://www.uniprot.org/citations/11016919)). Interacts with SMAD7 to trigger SMAD7-mediated transforming growth factor beta/TGF-beta receptor ubiquitin-dependent degradation, thereby down-regulating TGF-beta signaling (PubMed:[11163210](http://www.uniprot.org/citations/11163210), PubMed:[12717440](http://www.uniprot.org/citations/12717440), PubMed:[21791611](http://www.uniprot.org/citations/21791611)). In addition, interaction with SMAD7 activates autocatalytic degradation, which is prevented by interaction with AIMP1 (PubMed:[18448069](http://www.uniprot.org/citations/18448069)). Also forms a stable complex with TGF-beta receptor-mediated phosphorylated SMAD1, SMAD2 and SMAD3, and targets SMAD1 and SMAD2 for ubiquitination and proteasome-mediated degradation (PubMed:[11016919](http://www.uniprot.org/citations/11016919), PubMed:[11158580](http://www.uniprot.org/citations/11158580), PubMed:[11389444](http://www.uniprot.org/citations/11389444)). SMAD2 may recruit substrates, such as SNON, for ubiquitin-dependent degradation (PubMed:[11389444](http://www.uniprot.org/citations/11389444)). Negatively regulates TGFβ1-induced epithelial-mesenchymal

transition and myofibroblast differentiation (PubMed:<a href="http://www.uniprot.org/citations/30696809" target="\_blank">30696809</a>).

#### Cellular Location

Nucleus. Cytoplasm. Cell membrane. Membrane raft. Note=Cytoplasmic in the presence of SMAD7. Colocalizes with CAV1, SMAD7 and TGF-beta receptor in membrane rafts

#### Tissue Location

Widely expressed.

### SMURF2 Rabbit mAb - 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](#)

### SMURF2 Rabbit mAb - Images

