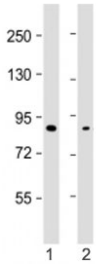
SMURF2 Antibody [clone 1826CT865.51.28] (F54130)

Catalog No.	Formulation	Size
F54130-0.2ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.2 ml
F54130-0.05ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.05 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	1826CT865.51.28
Purity	Protein G purified
UniProt	Q9HAU4
Applications	WB: 1:2000-1:4000
Limitations	This SMURF2 antibody is available for research use only.



Western blot testing of SMURF2 antibody at 1:2000: Lane 1) human MDA-MB-231 and 2) U-2OS cell lysate. Predicted molecular weight ~86 kDa.

Description

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. Interacts with SMAD1 and SMAD7 in order to trigger their ubiquitination and proteasome-dependent degradation. In addition, interaction with SMAD7 activates autocatalytic degradation, which is prevented by interaction with SCYE1. Forms a stable complex with the TGF-beta receptor-mediated phosphorylated SMAD2 and SMAD3. In this way, SMAD2 may recruit substrates, such as SNON, for ubiquitin-mediated

degradation. Enhances the inhibitory activity of SMAD7 and reduces the transcriptional activity of SMAD2. Coexpression of SMURF2 with SMAD1 results in considerable decrease in steady-state level of SMAD1 protein and a smaller decrease of SMAD2 level. [UniProt]

For a broader overview of SMURF2 biology, E3 ubiquitin ligase function, and ubiquitin-dependent signaling, see our SMURF2 Antibody / E3 Ubiquitin Ligase Antibody page.

Application Notes

The stated application concentrations are suggested starting points. Titration of the SMURF2 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Recombinant human SMURF2 was used as the immunogen for the SMURF2 antibody.

Storage

Aliquot the SMURF2 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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