

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human SMURF2 in direct ELISAs and Western blots. In Western blots, no cross-reactivity with recombinant human SMURF1 is observed.
Source	Monoclonal Mouse IgG _{2A} Clone # 690638
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human SMURF2 Met490-Glu748 Accession # Q9HAU4
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

SMURF2 (SMAD ubiquitin regulatory factor-2) is a ~86 kDa, 748 amino acid (aa) cytoplasmic E3 ubiquitin ligase that negatively regulates TGF-β signaling by promoting proteasomal degradation of some SMAD signaling molecules. It also influences cell cycle progression, peaking during mitosis and binding MAD2L1 and NEDD9/CASL. SMURF2 contains C2, WW1-3, and HECT domains. A potential 735 aa form lacks aa 19-31 (within the C2 domain), while a 507 aa form shows an alternate start site at aa 242 (between WW1 and WW2). Within the HECT domain region used as an immunogen, human SMURF2 shares 99% and 98% aa identity with mouse and rat SMURF2, respectively.

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