

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 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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.

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.