

**DESCRIPTION**

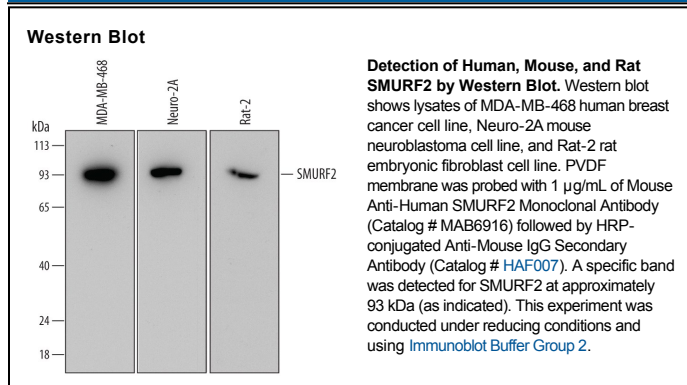
|                           |   |
|---------------------------|---|
| <b>Species Reactivity</b> | Human/Mouse/Rat   |
| <b>Specificity</b>        | Detects human SMURF2 in direct ELISAs and Western blots. In Western blots, no cross-reactivity with recombinant human SMURF1 is observed.   |
| <b>Source</b>             | Monoclonal Mouse IgG <sub>2A</sub> Clone # 690638   |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant  |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant human SMURF2<br>Met490-Glu748<br>Accession # Q9HAU4   |
| <b>Formulation</b>        | Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.<br>*Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS. |

**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.

|                     | <b>Recommended Concentration</b> | <b>Sample</b> |
|---------------------|----------------------------------|---------------|
| <b>Western Blot</b> | 1 µg/mL                          | See Below     |

**DATA**



**PREPARATION AND STORAGE**

|                                |  |
|--------------------------------|--|
| <b>Reconstitution</b>          | Sterile PBS to a final concentration of 0.5 mg/mL.   |
| <b>Shipping</b>                | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.<br>*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C   |
| <b>Stability &amp; Storage</b> | <b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul> |

**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.