

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human SHIP2 in direct ELISAs and Western blots. In Western blots, no cross-reactivity with recombinant mouse SHIP2 is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 737935
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human SHIP2 Ala1106-Lys1258 Accession # O15357
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 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.
Immunocytochemistry	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

SHIP2 (SH2 domain-containing inositol 5-phosphatase 2; also inositol polyphosphate phosphatase-like 1) is a 160 kDa member of the phosphatidylinositol/PtdIns 5-phosphatase family of enzymes. It is widely expressed and negatively regulates PI3 kinase pathways by hydrolyzing the 5-phosphate of PtdIns-3,4,5-triphosphate. Human SHIP2 is 1258 amino acids (aa) in length. It contains one SH2 domain (aa 21-117), a Pro-rich region with an SH3 binding site (aa 935-1105), and a SAM (or sterile α-motif) domain that binds ARAP3 (aa 1196-1258). Phosphorylation is known to occur on Tyr986, 1162 and 1358, and on Thr958. There is an alternate start site at Met243 and a second splice variant that shows a 40 aa substitution for aa 1228-1258. Over aa 1106-1258, human SHIP2 shares 95% aa identity with mouse SHIP2.

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.