

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse and rat SHIP2 in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human SHIP2 Ala1106-Lys1258 Accession # O15357
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 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.
Immunohistochemistry	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 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). SHIP2 is phosphorylated in response to growth factor activation on Tyr986, 1162 and 1358, and on Thr958, among other sites. Over aa 1106-1258, human SHIP2 shares 95% aa identity with mouse SHIP2.

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