

Human SHIP2 Antibody

Monoclonal Mouse IgG_{2B} Clone # 737935 Catalog Number: MAB5389

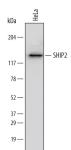
DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human SHIP2 in direct ELISAs and Western blots. In Western blots, no cross-reactivity with recombinant mouse SHIP2 is observed.		
Source	Monoclonal Mouse IgG _{2B} Clone # 737935		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	E. coli-derived recombinant human SHIP2 Ala1106-Lys1258 Accession # O15357		
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or 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

	Recommended Concentration	Sample
Western Blot	1 μg/mL	See Below
Immunocytochemistry	8-25 µg/mL	See Below

Western Blot



Detection of Human SHIP2 by Western Blot. Western blot shows lysates of HeLa human cervical epithelial carcinoma cell line. PVDF membrane was probed with 1 µg/mL of Mouse Anti-Human SHIP2 Monoclonal Antibody (Catalog # MAB5389) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for SHIP2 at approximately 140 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Immunocytochemistry

SHIP2 in PC-3 Human Cell Line. SHIP2 was detected in immersion fixed PC-3 human prostate cancer cell line using Mouse Anti-Human SHIP2 Monoclonal Antibody (Catalog # MAB5389) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red. upper panel: Catalog # NL007) and counterstained with DAPI (blue, lower panel). Specific staining was localized to nuclei and cytoplasm. View our protocol for Fluorescent ICC Staining of Cells on

PREPARATION AND STORAGE

Reconstitution Sterile PBS to a final concentration of 0.5 mg/mL.

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

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

Stability & Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

SHIP2 (SH2 domain-containing inositol 5-phosphatase 2; also inositol polyphosphate phosphatase-like 1) is a 160 kDa member of the phosphatidylinositol/PtdIns 5phosphatase 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.

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