

DESCRIPTION

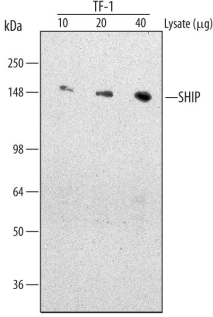
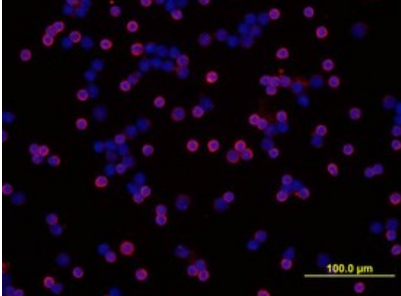
Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, and rat SHIP in Western blots.
Source	Monoclonal Rat IgG _{2A} Clone # 257812
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant mouse SHIP Glu874-Thr941 Accession # Q9ES52
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

DATA

<p>Western Blot</p>  <p>Detection of Human SHIP by Western Blot. Western blot shows lysates of TF-1 human erythroleukemic cell line. Gels were loaded with 10 µg (<i>lane 1</i>), 20 µg (<i>lane 2</i>), and 40 µg (<i>lane 3</i>). PVDF membrane was probed with 1 µg/mL Rat Anti-Human/Mouse/Rat SHIP Monoclonal Antibody (Catalog # MAB2317) followed by HRP-conjugated Anti-Rat IgG Secondary Antibody (Catalog # HAF005). A specific band for SHIP was detected at approximately 148 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 3.</p>	<p>Immunocytochemistry</p>  <p>SHIP in Mouse Splenocytes. SHIP was detected in immersion fixed mouse splenocytes using Rat Anti-Human/Mouse/Rat SHIP Monoclonal Antibody (Catalog # MAB2317) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Rat IgG Secondary Antibody (red; Catalog # Catalog # NL013) and counterstained with DAPI (blue). View our protocol for Fluorescent ICC Staining of Non-adherent Cells.</p>
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PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *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. <ul style="list-style-type: none"> • 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.

BACKGROUND

SHIP2-containing inositol phosphatase (SHIP), also known as INPP5D, is a negative regulator of signal transduction in hematopoietic cells. Targeted disruption of SHIP in mice leads to a myeloproliferative disorder. Several laboratories have demonstrated the presence of multiple forms of SHIP, including 145 kDa, 135 kDa, and C-terminal truncated forms at 125 kDa and 110 kDa in some cell types.