# Recombinant SHIP-1 Monoclonal Antibody

**catalog number:** **AN301886L**

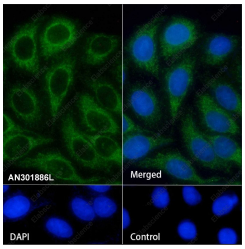
**Note:** *Centrifuge before opening to ensure complete recovery of vial contents.*

## Description

| | |
|---|---|
| **Reactivity** | Human;Mouse |
| **Immunogen** | A synthetic peptide of human SHIP-1 |
| **Host** | Rabbit |
| **Isotype** | Rabbit IgG |
| **Clone** | C211507 |
| **Purification** | Protein A affinity purification |
| **Conjugation** | Unconjugated |
| **Buffer** | PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant. |

| Applications | Recommended Dilution |
|---|---|
| **WB** | 1:1000 |
| **IHC-P** | 1:100-1:500 |
| **ICC** | 1:100 |
| **IP** | 1:20-1:50 |
| **FCM** | 1:20-1:50 |

## Data




Immunofluorescence analysis of HepG2 cells using SHIP-1 Antibody(AN301886L). Nuclear DNA was labeled in blue with DAPI. Control: Secondary antibody only.

## Preparation & Storage

| | |
|---|---|
| **Storage** | Store at -20°C Valid for 12 months. Avoid freeze/thaw cycles. |
| **Shipping** | Ice bag |

## Background

SH2-containing inositol phosphatase 1 (SHIP1) is a hematopoietic phosphatase that hydrolyzes phosphatidylinositol-3,4,5-triphosphate to phosphatidylinositol-3,4-bisphosphate. SHIP1 is a cytosolic phosphatase with an SH2 domain in its amino terminus and two NPXY Shc binding motifs in its carboxy terminus. Upon receptor cross-linking, SHIP is first recruited to the membrane junction through binding of its SH2 domain to the phospho-tyrosine in the ITIM motif, followed by tyrosine phosphorylation on the NPXY motif. The membrane relocalization and phosphorylation on the NPXY motif is essential for the regulatory function of SHIP1. Its effect on calcium flux, cell survival, growth, cell cycle arrest, and apoptosis is mediated through the PI3K and Akt pathways. Tyr1021 is located in one of the NPXY motifs in SHIP1, and its phosphorylation is important for SHIP1 function.


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