

## SHIP1 Antibody / SH2 domain-containing inositol 5'-phosphatase 1 / INPP5D (RQ4421)

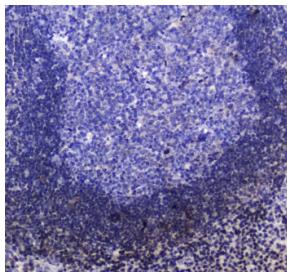
Catalog No.	Formulation	Size
RQ4421	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

**Bulk quote request**

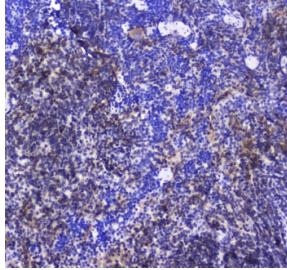
<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human, Mouse, Rat
<b>Format</b>	Antigen affinity purified
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal (rabbit origin)
<b>Isotype</b>	Rabbit IgG
<b>Purity</b>	Antigen affinity purified
<b>Buffer</b>	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
<b>UniProt</b>	Q92835
<b>Localization</b>	Membrane, cytoplasm
<b>Applications</b>	Western Blot : 0.5-1ug/ml IHC (FFPE) : 1-2ug/ml
<b>Limitations</b>	This SHIP1 antibody is available for research use only.

kDa  
 180-  
 130-  
 95-  
 72-  
 55-  
 43-  
 34-  
 26-  
 17-

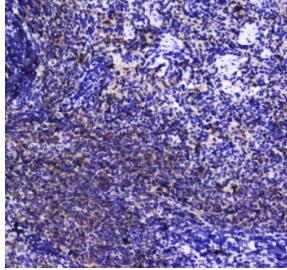
Western blot testing of human 1) CCRF-CEM and 2) SW620 cell lysate with SHIP1 antibody at 0.5ug/ml. Predicted molecular weight ~133 kDa, commonly observed at ~145 kDa.



IHC testing of FFPE human tonsil tissue with SHIP1 antibody at 1ug/ml. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



IHC testing of FFPE mouse spleen tissue with SHIP1 antibody at 1ug/ml. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



IHC testing of FFPE rat spleen tissue with SHIP1 antibody at 1ug/ml. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.

## Description

Phosphatidylinositol-3,4,5-trisphosphate 5-phosphatase 1, also called Inositol polyphosphate-5-phosphatase of 145 kDa, SIP-145 and SH2 domain-containing inositol phosphatase 1 (SHIP1), is an enzyme that in humans is encoded by the INPP5D gene. This gene is a member of the inositol polyphosphate-5-phosphatase (INPP5) family and encodes a protein with an N-terminal SH2 domain, an inositol phosphatase domain, and two C-terminal protein interaction domains. Expression of this protein is restricted to hematopoietic cells where its movement from the cytosol to the plasma membrane is mediated by tyrosine phosphorylation. At the plasma membrane, the protein hydrolyzes the 5' phosphate from phosphatidylinositol (3,4,5)-trisphosphate and inositol-1,3,4,5-tetrakisphosphate, thereby affecting multiple signaling pathways. The protein is also partly localized to the nucleus, where it may be involved in nuclear inositol phosphate signaling processes. Overall, the protein functions as a negative regulator of myeloid cell proliferation and survival. Mutations in this gene are associated with defects and cancers of the immune system.

## Application Notes

Optimal dilution of the SHIP1 antibody should be determined by the researcher.

## Immunogen

Amino acids NEDDKFTVQASEGVSMRFFTLDQLIEFYKKENMGLVTHLQ from the human protein were used as the immunogen for the SHIP1 antibody.

## Storage

After reconstitution, the SHIP1 antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.

