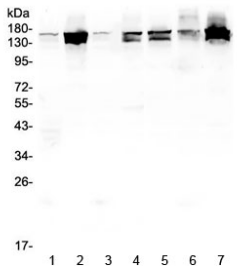
SHIP2 Antibody / INPPL1 (RQ4578)

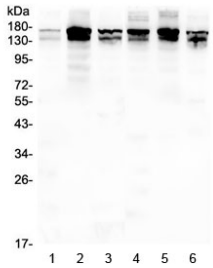
Catalog No.	Formulation	Size
RQ4578	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

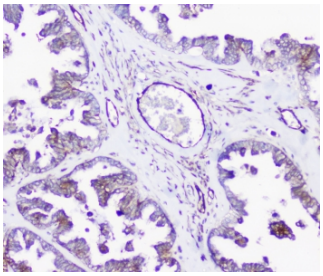
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	O15357
Localization	Cytoplasmic, nuclear
Applications	Western Blot : 0.5-1ug/ml IHC (FFPE) : 1-2ug/ml Immunofluorescence/Immunocytochemistry (FFPE) : 2-4ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA : 0.1-0.5ug/ml (human recombinant protein)
Limitations	This SHIP2 antibody is available for research use only.



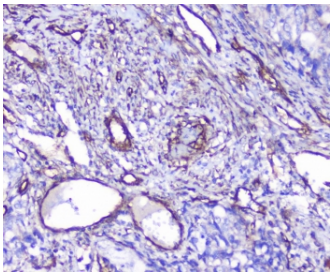
Western blot testing of human 1) placenta, 2) HeLa, 3) U-2 OS, 4) PC-3, 5) Caco-2, 6) A549 and 7) K562 lysate with SHIP2 antibody at 0.5ug/ml. Predicted molecular weight ~139 kDa (isoform 1), ~113 kDa (isoform 2).



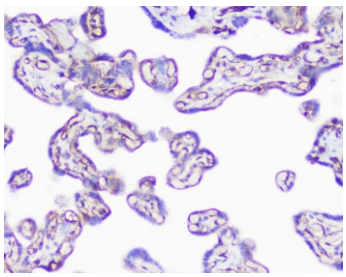
Western blot testing of rat 1) lung, 2) ovary, 3) brain and mouse 4) lung, 5) ovary and 6) brain lysate with SHIP2 antibody at 0.5ug/ml. Predicted molecular weight ~139 kDa (isoform 1), ~113 kDa (isoform 2).



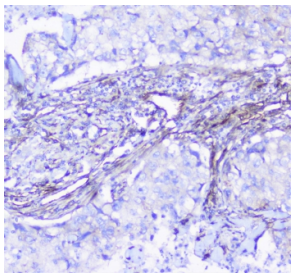
IHC staining of FFPE human ovarian cancer with SHIP2 antibody at 1ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.



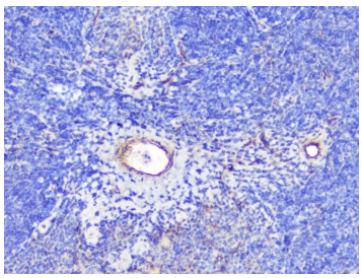
IHC staining of FFPE human stomach cancer with SHIP2 antibody at 1ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.



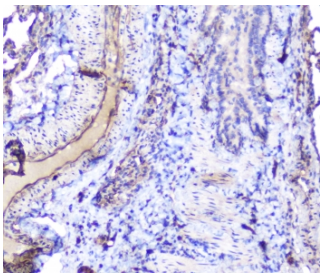
IHC staining of FFPE human placenta with SHIP2 antibody at 1ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.



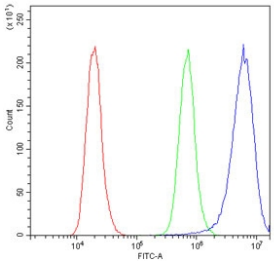
IHC staining of FFPE human lung cancer with SHIP2 antibody at 1ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.



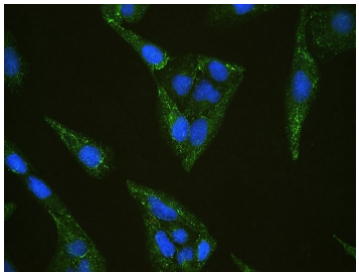
IHC staining of FFPE mouse spleen with SHIP2 antibody at 1ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.



IHC staining of FFPE rat lung with SHIP2 antibody at 1ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.



Flow cytometry testing of human A431 cells with SHIP2 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= SHIP2 antibody.



IF/ICC staining of FFPE human U-2 OS cells with SHIP2 antibody (green) at 2ug/ml and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.

Description

SH2-domain containing Phosphatidylinositol-3,4,5-trisphosphate 5-phosphatase 2 is an enzyme that in humans is encoded by the INPPL1 gene. The protein encoded by this gene is an SH2-containing 5'-inositol phosphatase that is involved in the regulation of insulin function. The encoded protein also plays a role in the regulation of epidermal growth factor receptor turnover and actin remodelling. Additionally, this gene supports metastatic growth in breast cancer and is a valuable biomarker for breast cancer.

Application Notes

Optimal dilution of the SHIP2 antibody should be determined by the researcher.

Immunogen

Amino acids R1172-K1258 from the human protein were used as the immunogen for the SHIP2 antibody.

Storage

After reconstitution, the SHIP2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.