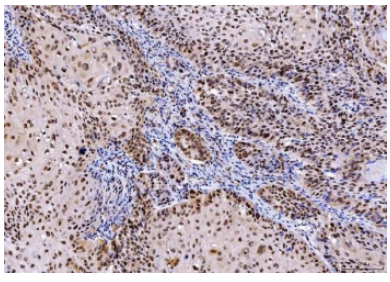
PTP1C Antibody / PTPN6 / SHP-1 [clone 8H11B10] (RQ7028)

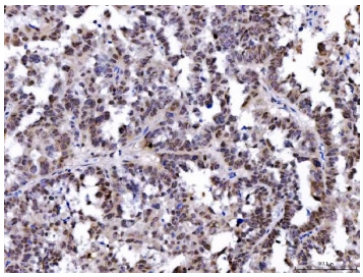
Catalog No.	Formulation	Size
RQ7028	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

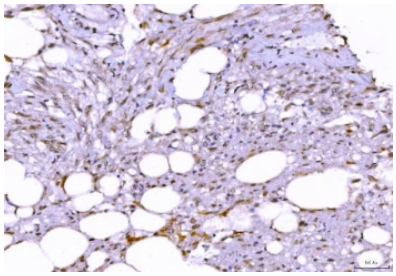
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b
Clone Name	8H11B10
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P29350
Localization	Cytoplasmic, nuclear
Applications	Western Blot : 0.5-1 ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml Immunofluorescence : 5ug/ml Flow Cytometry : 1-3ug/million cells
Limitations	This PTP1C antibody is available for research use only.



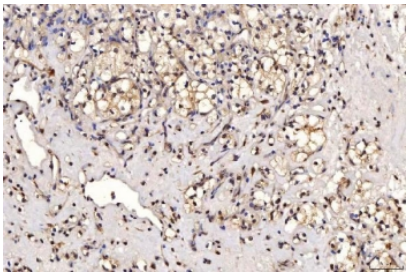
IHC staining of FFPE human laryngeal squamous cell carcinoma tissue with PTP1C antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



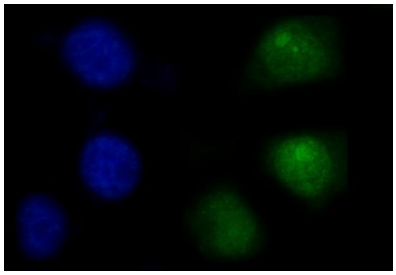
IHC staining of FFPE human serous adenocarcinoma of the ovary tissue with PTP1C antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



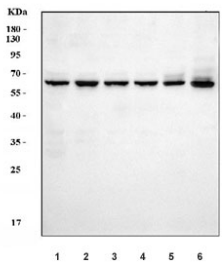
IHC staining of FFPE human smooth muscle fatty carcinoma of the left kidney tissue with PTP1C antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



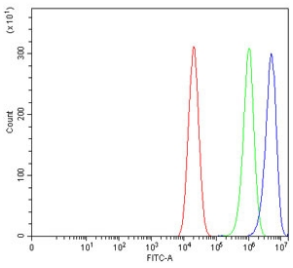
IHC staining of FFPE human renal clear cell carcinoma tissue with PTP1C antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Immunofluorescent staining of FFPE human A549 cells with PTP1C antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Western blot testing of 1) human Jurkat, 2) human Raji, 3) human HeLa, 4) human HepG2, 5) rat RH35 and 6) mouse HEPA1-6 cell lysate with PTP1C antibody. Predicted molecular weight: ~68 kDa.



Flow cytometry testing of human Caco-2 cells with PTP1C antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= PTP1C antibody.

Description

Tyrosine-protein phosphatase non-receptor type 6, also known as Src homology region 2 domain-containing phosphatase-1 (SHP-1), is an enzyme that in humans is encoded by the PTPN6 gene. The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. N-terminal part of this PTP contains two tandem Src homolog (SH2) domains, which act as protein phospho-tyrosine binding domains, and mediate the interaction of this PTP with its substrates. This PTP is expressed primarily in hematopoietic cells, and functions as an important regulator of multiple signaling pathways in hematopoietic cells. This PTP has been shown to interact with, and dephosphorylate a wide spectrum of phospho-proteins involved in hematopoietic cell signaling. Multiple alternatively spliced variants of this gene, which encode distinct isoforms, have been reported.

Application Notes

Optimal dilution of the PTP1C antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids E67-K572) was used as the immunogen for the PTP1C antibody.

Storage

After reconstitution, the PTP1C antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.