SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

[Primary Antibody]

Rabbit Anti-PTPRN antibody

Catalog Number: SL11532R

FOR RESEARCH USE ONLY

[DATASHEET]

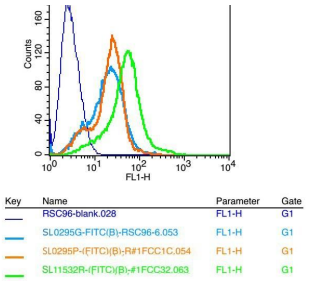
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	PTPRN
Immunogen:	KLH conjugated synthetic peptide derived from human TPIA2: 501-600/979 <Extracellular>
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	Flow-Cyt=3μg/Test （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Rat, (predicted: Human, Mouse, Pig, Cow, Sheep)
Predicted MW.:	102kDa
Subcellular Location:	The cell membrane
Background:	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. This PTP possesses an extracellular region, a single transmembrane region, and a single catalytic domain, and thus represents a receptor-type PTP. This PTP was found to be an autoantigen that is reactive with insulin-dependent diabetes mellitus (IDDM) patient sera, and thus may be a potential target of autoimmunity in diabetes mellitus. Alternate splicing results in multiple transcript variants.[provided by RefSeq, Dec 2010] **Function:** Implicated in neuroendocrine secretory processes. May be involved in processes specific for neurosecretory granules, such as their biogenesis, trafficking or regulated exocytosis or may have a general role in neuroendocrine functions. Seems to lack intrinsic enzyme activity. May play a

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

	role in the regulation of secretory granules via its interaction with SNTB2. **Subunit:** Interacts with phosphorylated SNTB2, protecting it from protein cleavage by CAPN1. Dephosphorylation of SNTB2 upon insulin stimulation disrupts the interaction and results in its cleavage. **Subcellular Location:** Membrane. Neuroendocrine secretory granules. **Tissue Specificity:** Expression is restricted to neuroendocrine cells. Found in pancreas, brain and pituitary. **Post-translational modifications:** Appears to undergo multiple proteolytic cleavage at consecutive basic residues. **Similarity:** Belongs to the protein-tyrosine phosphatase family. Receptor class 8 subfamily. Contains 1 tyrosine-protein phosphatase domain. **Database links:** **Entrez Gene:** 5798 Human **Entrez Gene:** 19275 Mouse **Entrez Gene:** 116660 Rat **Entrez Gene:** 286810 Cow Omim: 601773 Human **SwissProt:** P56722 Cow **SwissProt:** Q16849 Human **SwissProt:** Q60673 Mouse **SwissProt:** Q63259 Rat **Unigene:** 89655 Human **Unigene:** 2902 Mouse **Unigene:** 11097 Rat

[VALIDATION IMAGES]



Positive control: RSC96
Isotype Control Antibody: Rabbit IgG ;
Secondary Antibody: Goat anti-rabbit IgG-FITC,
Dilution: 1:100 in 1 X PBS containing 0.5% BSA ;
Primary Antibody Dilution: 3µg in 100 µL1X PBS containing 0.5% BSA.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.