

NPTN / SDR1 Antibody (Internal)
Rabbit Polyclonal Antibody
Catalog # ALS11049**Specification**

NPTN / SDR1 Antibody (Internal) - Product Information

Application	IHC
Primary Accession	O9Y639
Reactivity	Human, Mouse, Rabbit, Hamster, Monkey, Pig, Horse, Bovine, Guinea Pig, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	44kDa KDa

NPTN / SDR1 Antibody (Internal) - Additional Information**Gene ID** 27020**Other Names**

Neuroplastin, Stromal cell-derived receptor 1, SDR-1, NPTN, SDFR1, SDR1

Target/Specificity

Human NPTN. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

Reconstitution & Storage

Long term: -70°C; Short term: +4°C

Precautions

NPTN / SDR1 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

NPTN / SDR1 Antibody (Internal) - Protein Information**Name** NPTN**Synonyms** SDFR1, SDR1**Function**

Probable homophilic and heterophilic cell adhesion molecule involved in long term potentiation at hippocampal excitatory synapses through activation of p38MAPK. May also regulate neurite outgrowth by activating the FGFR1 signaling pathway. May play a role in synaptic plasticity (By similarity). Also acts as a chaperone for ATP2B1; stabilizes ATP2B1 and increases its ATPase activity (PubMed:30190470). Promotes localization of XKR8 at the cell membrane (PubMed:27503893).

Cellular Location

Cell membrane {ECO:0000250|UniProtKB:P97546}; Single-pass type I membrane protein {ECO:0000250|UniProtKB:P97546}

Tissue Location

Isoform 1 is ubiquitously expressed. Isoform 2 is expressed in brain cortex and cerebellum (at protein level) {ECO:0000269|PubMed:17196182, ECO:0000269|Ref.1}

Volume

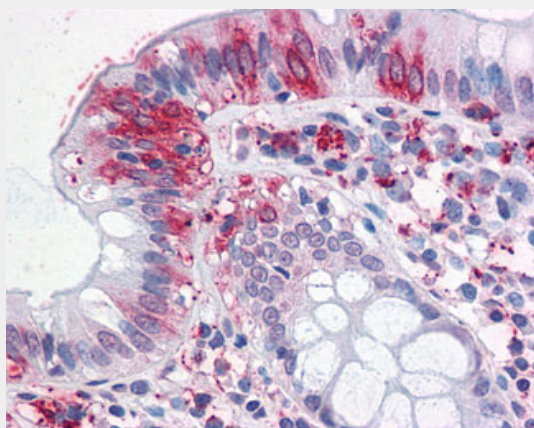
100 µl

NPTN / SDR1 Antibody (Internal) - Protocols

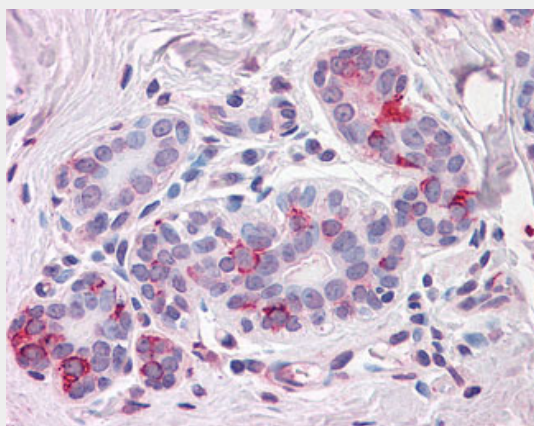
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

NPTN / SDR1 Antibody (Internal) - Images



Anti-NPTN antibody ALS11049 IHC of human colon.



Anti-NPTN antibody ALS11049 IHC of human breast.

NPTN / SDR1 Antibody (Internal) - Background

Probable homophilic and heterophilic cell adhesion molecule involved in long term potentiation at hippocampal excitatory synapses through activation of p38MAPK. May also regulate neurite outgrowth by activating the FGFR1 signaling pathway. May play a role in synaptic plasticity (By similarity).

NPTN / SDR1 Antibody (Internal) - References

Lopez N.D.,et al.Biomed. Res. 20:43-49(1999).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Totoki Y.,et al.Submitted (MAR-2005) to the EMBL/GenBank/DDBJ databases.
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
Zhang Z.,et al.Protein Sci. 13:2819-2824(2004).