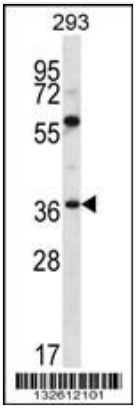
NPTN Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NPTN, Polyclonal Antibody
Full Product Name	NPTN, NT (NPTN, SDFR1, SDR1, Neuroplastin, Stromal cell-derived receptor 1) (PE)
Product Gene Name	anti-NPTN antibody
Product Synonym Names	NPTN; SDFR1; SDR1; Neuroplastin; Stromal cell-derived receptor 1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with R-Phycoerythrin (PE).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: PE conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	43,931 Da
OMIM	612820
3D Structure	ModBase 3D Structure for Q9Y639
Immunogen	NPTN antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 79-108 amino acids from the N-terminal region of human NPTN.
Conjugate	PE
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-NPTN antibody	Antibodies; Receptors
Applications Tested/Suitable for anti-NPTN antibody	Western Blot (WB), FLISA
Application Notes for anti-NPTN antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-NPTN antibody	This gene encodes a type I transmembrane protein belonging to the Ig superfamily. The protein is believed to be involved in cell-cell interactions or cell-substrate interactions. Alternative splicing results in multiple transcript variants. [provided by RefSeq].
Product References and Citations for anti-NPTN antibody	Bernstein, H.G., et al. Brain Res. 1134(1):107-112(2007). Saito, A., et al. Neurosci. Lett. 411(3):168-173(2007). Zhang, Z., et al. Protein Sci. 13(10):2819-2824(2004). Langnaese, K., et al. J. Biol. Chem. 272(2):821-827(1997).
Other Notes	Small volumes of anti-NPTN antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for NPTN purchase	MBS6326390 is an antibody targeting NPTN. Also known as NPTN, NT (NPTN, SDFR1, SDR1, Neuroplastin, Stromal cell-derived receptor 1) (PE). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-NPTN antibody
NPTN Antibody (N-term) western blot analysis in 293 cell line lysates (35ug/lane).This demonstrates the NPTN antibody detected the NPTN protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NPTN. It may not necessarily be applicable to this product.

NCBI GI #	238624147
NCBI GeneID	27020
NCBI Accession #	NP_001154835.1
NCBI Related Accession #	NP_036560.1; NP_001154836.1; NP_059429.1
UniProt Primary Accession #	Q9Y639
UniProt Secondary Accession #	Q17R52; Q59EJ9; Q6NVX7; Q9Y640; B2RAL7; B7Z4D3; B7ZLL2
UniProt Related Accession #	Q9Y639
GenBank Nucleotide #	NM_001161363.1
NCBI Official Full Name	neuroplastin isoform c
NCBI Official Synonym Full Names	neuroplastin
NCBI Official Symbol	NPTN
NCBI Official Synonym Symbols	GP55; GP65; SDR1; np55; np65; SDFR1
UniProt Protein Name	Neuroplastin
UniProt Synonym Protein Names	Stromal cell-derived receptor 1; SDR-1
Protein Family	Neuroplastin
UniProt Gene Name	NPTN
UniProt Synonym Gene Names	SDFR1; SDR1; SDR-1
UniProt Entry Name	NPTN_HUMAN
NCBI Protein Information	neuroplastin
NCBI Summary for NPTN	This gene encodes a type I transmembrane protein belonging to the Ig superfamily. The protein is believed to be involved in cell-cell interactions or cell-substrate interactions. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2009]

UniProt Comments for NPTN	neuroplastin: 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. 5 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Cell development/differentiation Chromosomal Location of Human Ortholog: 15q22 Cellular Component: presynaptic membrane; cell surface; integral to membrane Molecular Function: cell adhesion molecule binding; transmembrane receptor protein tyrosine kinase activity; ATP binding; type 1 fibroblast growth factor receptor binding Biological Process: elevation of cytosolic calcium ion concentration; peptidyl-tyrosine phosphorylation; positive regulation of fibroblast growth factor receptor signaling pathway; positive regulation of protein amino acid phosphorylation; homophilic cell adhesion; positive regulation of long-term neuronal synaptic plasticity; transmembrane receptor protein tyrosine kinase signaling pathway
Research Articles on NPTN	**1.** This study showed that Single nucleotide polymorphism in the neuroplastin locus associates with cortical thickness and intellectual ability in adolescents.
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