NPTXR Antibody – Sheep Polyclonal

PRODUCT OVERVIEW

Product Name	NPTXR, Polyclonal Antibody
Full Product Name	NPTXR (Neuronal Pentraxin Receptor, NPR)
Product Gene Name	anti-NPTXR antibody
Product Synonym Names	Anti -NPTXR (Neuronal Pentraxin Receptor, NPR)
Clonality	Polyclonal
Isotype	IgG
Host	Sheep
Species Reactivity	Human
Form/Format	Supplied as a lyophilized powder in PBS, 5% trehalose. Reconstitute with 500ul sterile 40-50% glycerol, PBS.
Purity/Purification	Affinity Purified Purified by immunoaffinity chromatography.
Specificity	Recognizes human NPTXR, extracellular domain. Displays less than 5% crossreacitvity with rhNPTX1 and rhNPTX2. Species Sequence Homology: Mouse - 87%.
Preparation and Storage	Lyophilized powder may be stored at 4 degree C for short-term only. Reconstitute to nominal volume by adding sterile 40-50% glycerol, PBS and store at -20 degree C. Reconstituted product is stable for 12 months at -20 degree C. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Further dilutions can be made in assay buffer.
Molecular Weight	52,846 Da
Chromosome Location	Chromosome: 22; NC_000022.10 (39214457..39240017, complement). Location: 22q13.1
OMIM	609474
3D Structure	ModBase 3D Structure for O95502
Immunogen	Purified, NS0-derived, recombinant human NPTXR, aa24-499.
Product Categories/Family for anti-NPTXR antibody	Antibodies; Abs to Receptors
Applications Tested/Suitable for anti-NPTXR antibody	ELISA (EL/EIA), Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-NPTXR antibody	Suitable for use in ELISA, Western Blot and Immunohistochemistry. Dilution: Direct ELISA: 0.5-1ug/ml; Detection limit for rhNPTXR is ~0.3ng/well. Western Blot: 0.1-0.2ug/ml; Detection limit for rhNPTXR is ~20ng/lane and 1ng/lane under non-reducing and reducing conditions, respectively. Immunohistochemistry: 3-10ug/ml
Related Product Information for anti-NPTXR antibody	NPTXR (Neuronal Pentraxin Receptor; also NPR) is a 65kD, type II transmembrane glycoprotein that binds Neuronal Pentraxins 1 and 2. It is expressed on cerebellar Purkinje and granule cells, and hippocampal neurons of the CA1, CA3 and dentate gyrus regions. Human NPTXR is 499 amino acids (aa) in length. It contains a two aa cytoplasmic tail, a 21aa transmembrane segment, and a 476aa extracellular region with one Pentraxin domain (aa295-499). One alternate start site exists at Met12, and a 55kD soluble form (possibly beginning at Gln56) may be generated by proteolytic cleavage.

Other Notes	Small volumes of anti-NPTXR 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 NPTXR purchase	MBS615188 is an antibody targeting NPTXR. Also known as NPTXR (Neuronal Pentraxin Receptor, NPR). Reactive in Human. Host: Sheep.

ADDITIONAL DETAILS

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

NCBI GI #	17402888
NCBI GeneID	23467
NCBI Accession #	NP_055108.2
UniProt Primary Accession #	O95502
UniProt Related Accession #	O95502
GenBank Nucleotide #	NM_014293.3
NCBI Official Full Name	neuronal pentraxin receptor
NCBI Official Synonym Full Names	neuronal pentraxin receptor
NCBI Official Symbol	NPTXR
NCBI Official Synonym Symbols	NPR
UniProt Protein Name	Neuronal pentraxin receptor
Protein Family	Neuronal pentraxin receptor
UniProt Gene Name	NPTXR
UniProt Entry Name	NPTXR_HUMAN
NCBI Protein Information	neuronal pentraxin receptor; OTTHUMP00000197414
NCBI Summary for NPTXR	This gene encodes a protein similar to the rat neuronal pentraxin receptor. The rat pentraxin receptor is an integral membrane protein that is thought to mediate neuronal uptake of the snake venom toxin, taipoxin, and its transport into the synapses. Studies in rat indicate that translation of this mRNA initiates at a non-AUG (CUG) codon. This may also be true for mouse and human, based on strong sequence conservation amongst these species. [provided by RefSeq]
UniProt Comments for NPTXR	NPTXR: May be involved in mediating uptake of synaptic material during synapse remodeling or in mediating the synaptic clustering of AMPA glutamate receptors at a subset of excitatory synapses. Heteropentamer with NPTX1 and/or NPTX2. Also binds taipoxin-associated calcium-binding protein 49 (TCBP49/RCN2) Protein type: Membrane protein, integral; Receptor, misc. Chromosomal Location of Human Ortholog: 22q13.1 Cellular Component: integral to membrane Molecular Function: metal ion binding
Research Articles on NPTXR	**1.** Clinical trial of gene-disease association and gene-environment interaction. (HuGE Navigator)
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.

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