



Recombinant Protein Technical Manual

Recombinant Human NPTX1 Protein (His Tag)

RPES0794

Product Data:

Product SKU: RPES0794

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: Q15818

Protein Information:

Molecular Mass: 45.9 kDa

AP Molecular Mass: 50-55 kDa

Tag: C-His

Bio-activity:

Purity: > 95% as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 µm filtered solution of PBS, 1mM EDTA, PH7.4.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Neuronal pentraxin;NPTX1;NP1

Immunogen Information:

Sequence: Gln23-Asn432

Background:

Neuronal Pentraxin (NPTX1, NP1) is a secreted glycoprotein within the Pentraxin family. NPTX1 is co-expressed and forms heteromultimers with the related secreted protein, NPTX2/NARP, NPTXR (Neuronal Pentraxin Receptor) at excitatory synapses. Mature human NPTX1 shares 97% aa sequence identity with mouse, and rat NPTX1. It is produced by hippocampal, cerebral and cerebellar neurons, retinal ganglia and the inner nuclear layer of the retina. It is enriched on presynaptic axonal membranes where it forms complexes with NPTXR. It 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.