



# Recombinant Protein Technical Manual

## Recombinant Human Nogo Receptor/NgR Protein (His Tag) RPES3875

### Product Data:

**Product SKU:** RPES3875

**Size:** 10µg

**Species:** Human

**Expression host:** Human Cells

**Uniprot:** Q9BZR6

### Protein Information:

**Molecular Mass:** 46.3 kDa

**AP Molecular Mass:** 45-72 kDa

**Tag:** C-6His

**Bio-activity:**

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

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

**Storage:** Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°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 20mM PB, 150mM NaCl, pH 7.4.

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

**Application:**

**Synonyms:** Reticulon-4 Receptor; Nogo Receptor; NgR; Nogo-66 Receptor; RTN4R; NOGOR

## Immunogen Information:

**Sequence:** Cys27-Ser447

## Background:

Nogo Receptor (NgR) is a glycosylphosphoinositol (GPI)-anchored protein that belongs to the Nogo receptor family. Human NgR is predominantly expressed in neurons and their axons in the central nervous systems. As a receptor for myelin-derived proteins Nogo, myelin-associated glycoprotein (MAG) and myelin oligodendrocyte glycoprotein (OMG), NgR mediates axonal growth inhibition and may play a role in regulating axonal regeneration and plasticity in the adult central nervous system. NgR may be proposed as a potential drug target for treatment of various neurological conditions. Additionally, NgR may play a role in regulating the function of gap junctions.