

Recombinant Rat NUMBL Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP52622

Size: 10ug, 100ug

Protein Name: Numb-like protein

Synonym: Numbl, Nbl

UniProt ID: A1L1I3

UniProt Link: www.uniprot.org/uniprotkb/A1L1I3/entry

Species Source: Rat

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 614 AA

Molecular Weight: 66 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MSRSAAASGGPRRPDQHLPPAPCGASGPPETFRTESDGAGTMNKLRLRQSLRRRKPAYVPEASRPH
QWQADEDVVRKGTCSFPVRYLGHVVEESRGMHVCEDAVKKLKAMGRKSVKSVLWVSADGLRVV
DDKTKDLLVDQTIEKVSFCAPDRNLDAFSYICRDGTTTRRWICHCFALAKDSGERLSHAVGCAFAAC
LERKQRREKECGVTAAFDASRTSFAREGSFRLSGGGRPAEREAGDKKKAEEAAAAPAVAPGPAQPG
HVSPTPATTSPGEKGEAGTPVAAGTTAAAIIPRRHAPLEQLVRQGSFRGFPALSQKNSPFKRQLSLRL
NELPSTLQRRTDQVKGTVPEMEPPGTGSDSGISALCTQISSSFASAGAPVPGPPSATTGTSAWGE
PSVPAATAFQPGHKRTPSEAERWLEEVSVQAKAQQQQQQQQQQQQQQQQQQQQQQQQQQQQQATSV
PPMPTMAPTLQPFSTPVGPFDTAAQVAVFLPPTHMQPPFVPAYPGLGYPPMPRPVVPVVGITPSQMV
ANAFCSAAQLQPQATLLGKAGAFPPTAPSAPGGQARPRPNGAPWPPEPAPAPAPELDPFEAQW
AALEGKPAVEKPSNPFSGDLQKTFEIEL

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant Numb-like protein produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: Plays a role in the process of neurogenesis. Required throughout embryonic neurogenesis to maintain neural progenitor cells, also called radial glial cells (RGCs), by allowing their daughter cells to choose progenitor over neuronal cell fate. Not required for the proliferation of neural progenitor cells before the onset of embryonic neurogenesis. Also required postnatally in the subventricular zone (SVZ) neurogenesis by regulating SVZ neuroblasts survival and ependymal wall integrity. Negative regulator of NF-kappa-B signaling pathway. The inhibition of NF-kappa-B activation is mediated at least in part, by preventing MAP3K7IP2 to interact with polyubiquitin chains of TRAF6 and RIPK1 and by stimulating the 'Lys-48'-linked polyubiquitination and degradation of TRAF6 in cortical neurons (By similarity).

Subcellular Localization: Cytoplasm . Note=Symmetrically distributed throughout the cytoplasm in non dividing neuroblasts of the CNS.

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.