

Recombinant Mouse NUP85 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51797

Size: 10ug, 100ug

Protein Name: Nuclear pore complex protein Nup85 (85 kDa nucleoporin) (FROUNT)
(Nucleoporin Nup85) (Pericentrin-1)

Synonym: Nup85, Pcnt1

UniProt ID: Q8R480

UniProt Link: www.uniprot.org/uniprotkb/Q8R480/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 656 AA

Molecular Weight: 75 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MEELDCEPAVTWIPGVNSKKKQMCFDWGPGEMLLCETSFNQTKGSEKVPSCPFYIIRKDVDVYSQI
LRKLFNESHGIFVGLQKIEEELSGKSRKAQLVRVSKNYRSVIRACMEEMHQVAIAAKDPASGRQFSS
QVSILSAMELIWNLCIEILFIEVAPAGPLLLHLLDWVRLHVCEVDSLADVLGGDNPSKHENFWDLVTV
LVLQGRLEARQMLAKEADANPSCAGMCRVLGDLMTMPILSPGNTQTLTELELKWQHWREECER
HLQDNTFAANPRLESLCKIMLGDEAALLEQKELLSNWWYHFLVTRLLYSNPTVKPIDLHFYAQSSLDMF
LGGESSPEPLDNILMAAFEFDIHQVKECSIALSNWWFVAHLTDLLDHCRLQLSHNLYFGSNMREFLL
LEYASGLFAHSLWQLGVDYFDYCPSELGRVSLELHIERIPLNTEQKALKVLRICEQRQMTEQVKSICKI
LAMKAVERNRLGSALSWSIRAKDAFATLVSDRFLRDYCEGCFSDLDLIDNLGSAMMLSDRLTFLG
KYREFHRLYGEKRFDAASLLLSLMTSQIAPRSFWMTLLTDALPLLEQKQVIFSAEQTYELMRCLDL
ASGRPECGEPDAQRLQDDDIETTKVEMLRLALARNLARAIIREGSLEGS

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 Nuclear pore complex protein Nup85 (85 kDa nucleoporin) (FROUNT) (Nucleoporin Nup85) (Pericentrin-1) 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: Essential component of the nuclear pore complex (NPC) that seems to be required for NPC assembly and maintenance. As part of the NPC Nup107-160 subcomplex plays a role in RNA export and in tethering NUP96/Nup98 and NUP153 to the nucleus. The Nup107-160 complex seems to be required for spindle assembly during mitosis. NUP85 is required for membrane clustering of CCL2-activated CCR2. Seems to be involved in CCR2-mediated chemotaxis of monocytes and may link activated CCR2 to the phosphatidylinositol 3-kinase-Rac-lamellipodium protrusion cascade. Involved in nephrogenesis.

Subcellular Localization: Nucleus, nuclear pore complex . Chromosome, centromere, kinetochore . Cytoplasm, cytoskeleton, spindle . Cytoplasm . Nucleus membrane . Note=During mitosis, localizes to the kinetochores and spindle poles. Upon CCL2 stimulation translocates from the cytoplasm to the membrane and colocalizes with CCR2 at the front of migrating cells.

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.