

Recombinant Mouse AN32B Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51905

Size: 10ug, 100ug

Protein Name: Acidic leucine-rich nuclear phosphoprotein 32 family member B (Proliferation-related acidic leucine-rich protein PAL31)

Synonym: Anp32b, Pal31

UniProt ID: Q9EST5

UniProt Link: www.uniprot.org/uniprotkb/Q9EST5/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 272 AA

Molecular Weight: 31 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MDMKRRIHLELRNRTPAAVRELVDNCKAMDGKIEGLTDEFVNLEFLSLISVGLFSVSDLPKLPKLKKL
ELSENRIFGGLDRLAEELPSLTHLNLSGNNLKDISTLEPLKRLDCLKSLDLFGCEVTNRSDYRETVFRL
LPQLSYLDGYDREDQEAPDS DVEVDSVEEAPDS DGEVDGVDKEEEDDEEGEDEEEEEDEDEGEEEEED
EDEDEDEDEDEDEVEGEDDEDEVS GEEEEFGHDGEVDEDEDEDEDEDEEEEEESGKGKREKRETDD
EGEDD

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 Acidic leucine-rich nuclear phosphoprotein 32 family member B (Proliferation-related acidic leucine-rich protein PAL31) 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: Multifunctional protein that is involved in the regulation of many processes including cell proliferation, apoptosis, cell cycle progression or transcription (PubMed:21636789). Regulates the proliferation of neuronal stem cells, differentiation of leukemic cells and progression from G1 to S phase of the cell cycle. As negative regulator of caspase-3-dependent apoptosis, may act as an antagonist of ANP32A in regulating tissue homeostasis (By similarity). Exhibits histone chaperone properties, able to recruit histones to certain promoters, thus regulating the transcription of specific genes (By similarity). Also plays an essential role in the nucleocytoplasmic transport of specific mRNAs via the uncommon nuclear mRNA export receptor XPO1/CRM1 (By similarity). Participates in the regulation of adequate adaptive immune responses by acting on mRNA expression and cell proliferation (PubMed:30890743).

Subcellular Localization: Nucleus . Note=Accumulates in the nuclei at the S phase.

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.