

Recombinant Mouse ANKR2 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51986

Size: 10ug, 100ug

Protein Name: Ankyrin repeat domain-containing protein 2 (Skeletal muscle ankyrin repeat protein) (mArpp)

Synonym: Ankrd2, Arpp

UniProt ID: Q9WV06

UniProt Link: www.uniprot.org/uniprotkb/Q9WV06/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 328 AA

Molecular Weight: 37 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MEGPEAVQRATELIEQRLAQEEETEKLRRSAPGKLSMDMLVLEEEKRLGVQSPALQKVKGQERVVK
TSLDLRREIIDVGGIQLNLIELRKKRKQKKRDALAAAEPPPEPEEITGPVNEETFLKAAVEGKMKVIDK
YLADGGSADTCDEFRRRTALHRASLEGHMEILEKLLENGATVDFQDRLDCTAMHWACRGGHLEVRL
LQSRGADTNVRDKLLSTPLHVAVRTGHVEIVEHFLSLGLDINAKDREGDSALHDAVRLNRYKIIKLLLL
HGADMMAKNLAGKTPTDLVQLWQADTRHALEHPEPESEQNGLERPGSGRETPQPIPAQ

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 Ankyrin repeat domain-containing protein 2 (Skeletal muscle ankyrin repeat protein) (mArpp) 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: Functions as a negative regulator of myocyte differentiation. May interact with both sarcoplasmic structural proteins and nuclear proteins to regulate gene expression during muscle development and in response to muscle stress.

Subcellular Localization: Cytoplasm, myofibril, sarcomere, I band. Cytoplasm, cytosol. Nucleus. Nucleus, PML body . Note=In the sarcoplasm of differentiated striated muscle cells, where it is cytosolic and enriched in the I band. In nucleus and PML bodies of proliferating and undifferentiated myoblasts. Associates with the euchromatin in the nucleus of myocytes upon muscle stress.

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.