

Recombinant Mouse COR1A Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51204

Size: 10ug, 100ug

Protein Name: Coronin-1A (Coronin-like protein A) (Clipin-A) (Coronin-like protein p57) (Tryptophan aspartate-containing coat protein) (TACO)

Synonym: Coro1a, Coro1

UniProt ID: O89053

UniProt Link: www.uniprot.org/uniprotkb/O89053/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 461 AA

Molecular Weight: 51 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MSRQVVRSSKFRHVFQGPAKADQCIEDVRVSQTTWDSGFCVNPCKFMALICEASGGGAFLVLPLG
KTGRVDKNVPLVCGHTAPVLDIAWCPHNDNVIASGSEDCTVMVWEIPDGGLVLPLREPVITLEGHTK
RVGIVAWHPTAQNVLLSAGCDNVILVWDVGTGA AVLTLGPDVHPDTIYSVDWSRDGALICTSCRDKR
VRVIEPRKGTVAEKDRPHEGTRPVHAVFVSEGKILTTGFSRMSEKQVALWDTKHLEEPLSLQELDT
SSGVLLPFFDPDTNIVYLCGKGDSSIRYFEITSEAPFLHYLSMFSSKESQRMGYMPKRGLEVNKCEI
ARFYKLHERKCEPIAMTVPRKSDLFQEDLYPPTAGPDPALTAEEWLGGRDAGPLLISLKDGYVPPKS
RELVRNRLDSARRRATPEPSGTPSSDTSRLEEDVRNLNAIVQKLQERLDRLEETVQAK

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 Coronin-1A (Coronin-like protein A) (Clipin-A) (Coronin-like protein p57) (Tryptophan aspartate-containing coat protein) (TACO) 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: May be a crucial component of the cytoskeleton of highly motile cells, functioning both in the invagination of large pieces of plasma membrane, as well as in forming protrusions of the plasma membrane involved in cell locomotion. In mycobacteria-infected cells, its retention on the phagosomal membrane prevents fusion between phagosomes and lysosomes.

Subcellular Localization: Cytoplasm, cytoskeleton . Cytoplasm, cell cortex . Cytoplasmic vesicle, phagosome membrane . Note=In non-infected macrophages, associated with the cortical microtubule network. In mycobacteria-infected macrophages, becomes progressively relocalized and retained around the mycobacterial phagosomes. Retention on the phagosomal membrane is strictly dependent on mycobacterial viability and not due to impaired acidification.

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.