

Recombinant Mouse RGCC Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51883

Size: 10ug, 100ug

Protein Name: Regulator of cell cycle RGCC (Response gene to complement 32 protein) (RGC-32)

Synonym: Rgcc, Rgc32

UniProt ID: Q9DBX1

UniProt Link: www.uniprot.org/uniprotkb/Q9DBX1/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 137 AA

Molecular Weight: 15 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MKPPSAQSSPAAVAAAAPAMDSAAAADLTDVLCFDDAVLADFASPFHERHFHYEEHLERMKRRSSA
SVSDSSGFSDESADSVYRDSFTFSDEKLNSPTNSSPALLPSAVTPRKAKLGDTKELEDFIADLDRTL
ASM

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 Regulator of cell cycle RGCC (Response gene to complement 32 protein) (RGC-32) 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: Modulates the activity of cell cycle-specific kinases. Enhances CDK1 activity. May contribute to the regulation of the cell cycle. May inhibit growth of glioma cells by promoting arrest of mitotic progression at the G2/M transition. Fibrogenic factor contributing to the pathogenesis of renal fibrosis through fibroblast activation.

Subcellular Localization: Cytoplasm . Nucleus . Cytoplasm, cytoskeleton, microtubule organizing center, centrosome . Note=Cytoplasmic in unstimulated cells. Nuclear after activation by complement. Associated with the centrosome during prometaphase and metaphase (By similarity).

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.