

Recombinant Human RN182 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50851

Size: 10ug, 100ug

Protein Name: E3 ubiquitin-protein ligase RNF182 (EC 2.3.2.27) (RING finger protein 182) (RING-type E3 ubiquitin transferase RNF182)

Synonym: RNF182

UniProt ID: Q8N6D2

UniProt Link: www.uniprot.org/uniprotkb/Q8N6D2/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 247 AA

Molecular Weight: 27 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MASQPPEDTAESQASDELECKICYNRYNLKQRKPKVLECCHRVCAKCLYKIIDFGDSPQGIVVCPFC
RFETCLPDDEVSSLPDDNNILVNLTCCGKGKKCLPENPTLLLLTPKRLASLVSPSHTSSNCLVITIMEV
QRESSPSLSSTPVVEFYRPASFDSVTTVSHNWTWVNCTSLLFQTSIRVLVWLLGLLYFSSLPLGIYLL
VSKKVTLGVVVSLVPSSLVILMVYGFQCQVCHEFLDCMAPPSS

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 E3 ubiquitin-protein ligase RNF182 (EC 2.3.2.27) (RING finger protein 182) (RING-type E3 ubiquitin transferase RNF182) 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: E3 ubiquitin-protein ligase that mediates the ubiquitination of ATP6V0C and targets it to degradation via the ubiquitin-proteasome pathway (PubMed:18298843). Also plays a role in the inhibition of TLR-triggered innate immune response by mediating 'Lys'-48-linked ubiquitination and subsequent degradation of NF-kappa-B component RELA (PubMed:31432514).

Subcellular Localization: Membrane ; Multi-pass membrane protein . Cytoplasm .

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.