

Recombinant Mouse RN114 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51907

Size: 10ug, 100ug

Protein Name: E3 ubiquitin-protein ligase RNF114 (EC 2.3.2.27) (RING finger protein 114) (RING-type E3 ubiquitin transferase RNF114) (Zinc finger protein 228) (Zinc finger protein 313)

Synonym: Rnf114, Zfp228, Zfp313, Znf228, Znf313

UniProt ID: Q9ET26

UniProt Link: www.uniprot.org/uniprotkb/Q9ET26/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 229 AA

Molecular Weight: 26 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MAAAQPESRDGAAQSAKPASETDP LSRFTCPVCLEVF EKPQVPCGHVFC SACLQECLKPKK PVC
GVCRSALAPGVRAVELERQIESIETSCHGCRKNFILSKIRAHVTSCSKYQNYIMEGVKATTKDASLQP
RNIPNRYTFPCPYCPEKNFDQEG LVEHCKLTHSTD TKSVCPICASMPW GDPSYRSANFMEHIQRR
HRFSYDTFVDYDVDEDDMINQVLQRSIIDQ

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 RNF114 (EC 2.3.2.27) (RING finger protein 114) (RING-type E3 ubiquitin transferase RNF114) (Zinc finger protein 228) (Zinc finger protein 313) 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 promotes the ubiquitination of various substrates. In turn, participates in the regulation of many biological processes including cell cycle, apoptosis, osteoclastogenesis as well as innate or adaptive immunity. Acts as negative regulator of NF-kappa-B-dependent transcription by promoting the ubiquitination and stabilization of the NF-kappa-B inhibitor TNFAIP3. May promote the ubiquitination of TRAF6 as well. Also acts as a negative regulator of T-cell activation. Inhibits cellular dsRNA responses and interferon production by targeting MAVS component for proteasomal degradation. Ubiquitinates the CDK inhibitor CDKN1A leading to its degradation and probably also CDKN1B and CDKN1C. This activity stimulates cell cycle G1-to-S phase transition and suppresses cellular senescence. May play a role in spermatogenesis.

Subcellular Localization: Cytoplasm . Nucleus .

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.