

Recombinant Mouse NFIP2 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51832

Size: 10ug, 100ug

Protein Name: NEDD4 family-interacting protein 2 (NEDD4 WW domain-binding protein 5A)

Synonym: Ndfip2, Kiaa1165, N4wbp5A

UniProt ID: Q91ZP6

UniProt Link: www.uniprot.org/uniprotkb/Q91ZP6/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 311 AA

Molecular Weight: 34 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

RRSASDAELSAGAEGATGSEAAPPGDLGGRTRGGGRGSAAAAATTSTREAEGAERRGDT PARKP
DPEAGRMDHHQLGTGRYQVLHNEEDNSESSAVEQPSTSSLAAPTVEAAASAPALDPDSPPPYSSIT
VEAPTTSDTDVYSEFYPPVPPYSVATSLPTYDEAEKAKAAALAAAAADAPQRNQEEDCTPRDDFSD
VEQLRVGNDGIFMLAFFMAFIFNWLGFCLSFCITNTIAGRYGAICGFGLSLIKWILIVRFSDYFTGYFNG
QYWLWWIFLVLGLLFFRGFVNYLKVRNMSESMAAAHRTRYFFLL

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 NEDD4 family-interacting protein 2 (NEDD4 WW domain-binding protein 5A) 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: Activates HECT domain-containing E3 ubiquitin-protein ligases, including ITCH, NEDD4, NEDD4L, SMURF2, WWP1 and WWP2, and consequently modulates the stability of their targets. As a result, may control many cellular processes. Recruits ITCH, NEDD4 and SMURF2 to endosomal membranes. Negatively regulates KCNH2 potassium channel activity by decreasing its cell-surface expression and interfering with channel maturation through recruitment of NEDD4L to the Golgi apparatus and multivesicular body where it mediates KCNH2 degradation (By similarity). May modulate EGFR signaling (By similarity). Together with NDFIP1, limits the cytokine signaling and expansion of effector Th2 T-cells by promoting degradation of JAK1, probably by ITCH- and NEDD4L-mediated ubiquitination (PubMed:27088444).

Subcellular Localization: Endosome membrane ; Multi-pass membrane protein . Golgi apparatus membrane . Endosome, multivesicular body membrane ; Multi-pass membrane protein .

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.