

Recombinant Human ASB1 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50051

Size: 10ug, 100ug

Protein Name: Ankyrin repeat and SOCS box protein 1 (ASB-1)

Synonym: ASB1, KIAA1146

UniProt ID: Q9Y576

UniProt Link: www.uniprot.org/uniprotkb/Q9Y576/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 335 AA

Molecular Weight: 37 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MAEGGSPDGRAGPGSAGRNLKEWLREQFCDHPLEHCEDTRLHDAAYVGDLQTLRSLLQEESYRS
RINEKSVWCCGWLPCTPLRIAATAGHGSCVDFLIRKGAEVDLVDVKGQTALYVAVVNGHLESTQILL
EAGADPNGSRHHRSTPVYHASRVGRADILKALIRYGADVVDVNHHLTPDVQPRFSRRLTSLVVCPLYI
SAAYHNLQCFRLLLLAGANPDFNCNGPVNTQGFYRGSPGCVMDAVLRHGCEAAFVSLLVEFGANL
NLVKWESLGPESRGRRKVDPEALQVFKEARSPRTLLCLCRVAVRRALGKHRLHLIPSLPLDPPIKKF
LLHE

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 Ankyrin repeat and SOCS box protein 1 (ASB-1) 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: Probable substrate-recognition component of a SCF-like ECS (Elongin-Cullin-SOCS-box protein) E3 ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins (PubMed:16325183). Mediates Notch-induced ubiquitination and degradation of TCF3/E2A and JAK2 (PubMed:21119685). Functions as a tumor suppressor by enhancing CHCHD3 'Lys-48'-linked ubiquitination, leading to inhibition of the CHCHD3/ROS signaling pathway (PubMed:39113857). Suppresses TAB2-linked 'Lys-48' polyubiquitination and consequently facilitates the initiation of NF-kappa-B and MAPK signaling cascades (PubMed:33431678). May play a role in testis development (By similarity).

Subcellular Localization: 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.