

Recombinant Mouse AREL1 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51766

Size: 10ug, 100ug

Protein Name: Apoptosis-resistant E3 ubiquitin protein ligase 1 (EC 2.3.2.26) (Apoptosis-resistant HECT-type E3 ubiquitin transferase 1)

Synonym: Arel1, Kiaa0317

UniProt ID: Q8CHG5

UniProt Link: www.uniprot.org/uniprotkb/Q8CHG5/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 823 AA

Molecular Weight: 94 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MFYVIGGIIVSVVAFFFTIKFLFELAAARVVSFLQNEDRERRGDRTIYDYVRGNYLDPRSCKVSWDWKD
PYEVGHSMAFRVHLFYKNGQPFAHRPVGLRVHISHVELAVDIPVTQEVLQEPNSNVKVAFTVRKA
GRYEITVKLGGLNVAYSPYYKIFQPGMVVPSKTKIVCHFSTLVLTGQPHTLQIVPRDEYDNPTNNSM
SLRDEHSYSLAIHELGPQEEENNEVSFEKSVTSNRQTCQVFLRLTLHSRGCFHACISYQNQPINNGE
FDIIVLSENEKNIVERNVSTSGVSIYFEAYLYNANNCTSTPWHLPMMHSSSQRRPSTAIEEDEDSP
SECHTPEKVKKPKKVYCYVSPKQFSVKEFYLKIIIPWRLYTFRVCPGTFKFSYLGPDVPVHKLLTLVDDG
IQPPVELSCKERNILAATFIRSLHKNIGGSETFQDKVNFFQRELQVHMKRPHSKVTLKVSRRHALLES
SLKATRNFSISDWSKNFEVVFQDEEALDWGGPRREWFELICKALFDTTSQLFARFTDSNQALVHPNP
NRPAHLRLKMYEFAGRLVGKCLYESSLGAYKQLVRARFTRSFLAQIIGLRMHYKYFETDDPEFYKS
KVCFILNNDMSEMELVFAEEKYNKSGQLDKIVELMTGGAQTPVTNANKIFYLNLLAQYRLASQVKEEV
EHFLKGLNELVPENLLAIFDENELELLMCGTGDINVSDFAHAVVVGGSWHFREKVMRWFVAVVSS
LTQEELARLLQFTTGSSQLPPGGFAALCPSFQIIAAPTHSTLPTAHTCFNQLCLPTYDSYEEVHRMLQ
LAISEGCEGFGML

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 Apoptosis-resistant E3 ubiquitin protein ligase 1 (EC 2.3.2.26) (Apoptosis-resistant HECT-type E3 ubiquitin transferase 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: E3 ubiquitin-protein ligase that catalyzes 'Lys-11'- or 'Lys-33'-linked polyubiquitin chains, with some preference for 'Lys-33' linkages (By similarity). E3 ubiquitin-protein ligases accept ubiquitin from an E2 ubiquitin-conjugating enzyme in the form of a thioester and then directly transfers the ubiquitin to targeted substrates (By similarity). Ubiquitinates SEPTIN4, DIABLO/SMAC and HTRA2 in vitro (By similarity). Modulates pulmonary inflammation by targeting SOCS2 for ubiquitination and subsequent degradation by the proteasome (PubMed:31578312).

Subcellular Localization: N/A

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.