

Product Name: AREL1 (436-823)

Alternate Names: KIAA0317, FLR

Product Code: TE3-065

FOR RESEARCH USE ONLY (RUO)

Verified Applications / Usage

In vitro, recombinant AREL1 accepts activated ubiquitin from E2 conjugating enzymes UBE2D1 or UBE2L3, in a reaction that also requires Ubiquitin Activating Enzyme 1 (an E1). The charged E3 demonstrates strong autoubiquitylation in the absence of added substrates. Appropriate enzyme concentrations are specific to the application.

Physical Characteristics

Species: Human

Predicted MW (kDa): 58 kDa

Source: *E. coli* BL21(DE3) A.I.

Purity: 95 %

Tag: N-His₆-SUMO

Formulation: 40 mM HEPES, 100 mM NaCl, 10% Glycerol, 1 mM EDTA, 1 mM TCEP, pH 7.6

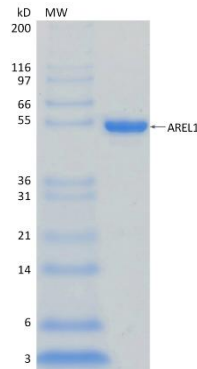
Shipping: The product is shipped with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Stability/Storage: Use a manual defrost freezer and avoid repeated freeze-thaw cycles. Aliquot and store ≤ -70°C (stable for 24 months from date of receipt).

Quality Assurance

Purity & SDS-PAGE

Protein ID: Apoptosis-resistant E3 ubiquitin protein ligase 1



2 µg AREL1 run on 4-12% SDS-PAGE gel under reducing conditions, then visualized with Colloidal Coomassie Blue Stain.

Activity Assay

Verified in Polyubiquitin Chain Synthesis Assay.

Background

Description

Recombinant human AREL1 is a HECT-type E3 that generates mainly K11- and K33-linked polyubiquitin chains. This recombinant protein consists of the AREL1 HECT domain (aa 436-823) and an N-terminal His₆-SUMO tag.

Accession Number: O15033

Entrez Gene ID: AREL1

Protein Sequence

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MGGSHHHHHHGSLEVLFFQGPMSMSDQEAKPSTEDLGDKKEGEYIKLKVIGQDSSEIHFKVKMT
THLKKLKESYCQRQGVPMNSLRFLFEGQRIADNHTPKELGMEEEDVIEVYQEQTGGSETFQDK
VNFFQRELQRQVHMKRPHSKVTLKVSRRHALLESSLKATRNFSSISDWSKNFEVVFQDEEALDWGG
PRREWFELICKALFDTTNQLFTRFSDNNQALVHPNPNRPAHLRLKMYEFAGRLVGKCLYESSL
GGAYKQLVRARFTRSFLAQIIIGLRMHYKYFETDDPEFYKSKVCFILNNDMSEMELVF AEEKYN
KSGQLDKVVELMTGGAQTPVTNANKIFYLNLLAQYRLASQVKEEVEHFLKGLNELVPENLLAI
FDENELELLMCGTGDISVSDFKAHAVVVGGSWHFREKVMRWFVTVVSSLTQEELARLLQFTTG
SSQLPPGGFAALCPSFQIIAAPHSTLPTAHTCFNQLCLPTYDSYEEVHRMLQLAISEGCEGF
GML
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