

UBA1 recombinant protein

Recombinant UBA1 protein

CATALOG # AAA60404	HOST Baculovirus
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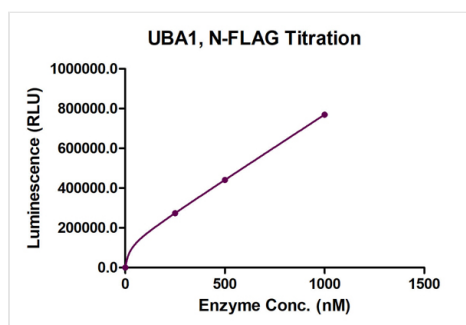
PRODUCT SYNONYMS

UBA1; Recombinant UBA1 protein; Ubiquitin-like modifier-activating; A1S9; A1S9T; A1ST; GXP1; UBE1; AMCX1; POC20; SMAX2; UBA1A; UBE1X; CFAP124; UBA1 recombinant protein

PRODUCT SPECIFICATIONS

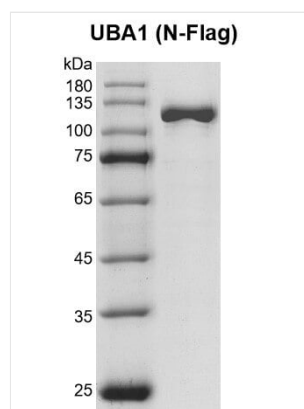
Host	Baculovirus
Purity/Purification	>=95% by SDS-PAGE.
Form/Format	Recombinant UBA1 protein is supplied in 25 mM HEPES pH 7.5, 500 mM NaCl, 20% glycerol, 0.04% Triton X-100, 0.5 mM TCEP.
Protein Species	Human
Protein Details	Recombinant UBA1 protein that includes full length of human UBA1 protein (accession number NP_003325.2) was expressed in Sf9 cells and contains an N-terminal DYKDDDDK tag with a molecular weight of 119.12kDa.
Preparation and Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage.

IMAGES



Application Data

AMP-Glo assay for UBA1 activity 7.9uM ubiquitin and 25uM ATP were incubated with different concentrations of UBA1 in 10ul reaction system containing 40 mM Tris-HCl pH 7.4, 20 mM MgCl₂, 0.5 mM DTT, 0.1 mg/ml BSA at 37° for 1 hour. 10ul of AMP-Glo Reagent I was added to the reaction and incubated for 1 hour at room temperature. Then 20ul of AMP-Glo Detection Solution was added and luminescence was read after another 30 min incubation.



SDS-PAGE

Recombinant UBA1 protein gel. UBA1 protein was run on a 10% SDS-PAGE gel and stained with Coomassie Blue. MW: 119.12kDa Purity: >95%

ADDITIONAL INFORMATION

Related Product Information for UBA1 recombinant protein

UBA1 (Ubiquitin-like modifier-activating) also known as A1S9, A1S9T, A1ST, AMCX1, CFAP124, GXP1, POC20, SMAX2, UBA1A, UBE1, UBE1X and VEXAS. UBA1 catalyzes the first step in ubiquitin conjugation to mark cellular proteins for degradation through the ubiquitin-proteasome system. Activates ubiquitin by first adenylating its C-terminal glycine residue with ATP, and thereafter linking this residue to the side chain of a cysteine residue in E1, yielding a ubiquitin-E1 thioester and free AMP. Essential for the formation of radiation-induced foci, timely DNA repair and for response to replication stress. Promotes the recruitment of TP53BP1 and BRCA1 at DNA damage sites.

NCBI AND UNIPROT INFORMATION

Molecular Weight	119.12kDa
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For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/uba1-recombinant-protein-baculovirus/60404>