

UBA1 Polyclonal Antibody | anti-UBA1 antibody

Anti-UBA1 Antibody

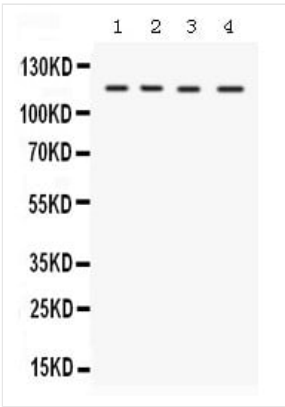
CATALOG # AAA46258	REACTIVITY Human, Mouse, Rat	APPLICATIONS Western Blot
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PRODUCT SYNONYMS

UBA1; Polyclonal Antibody; Anti-UBA1 Antibody; Ubiquitin-like modifier-activating enzyme 1; A1S9; A1S9 protein; A1S9T and BN75 temperature sensitivity complementing; A1S9T; A1ST; AMCX1; CFAP124; CTD-2522E6.1; GXP 1; GXP1; MGC4781; POC20; POC20 centriolar protein homolog; Protein A1S9; SMAX2; Uba1; ubiquitin-activating enzyme E1 homolog A; UBA1_HUMAN; UBA1A; UBE 1; UBE 1X; UBE1; UBE1X; Ubiquitin activating enzyme E1; Ubiquitin-activating enzyme E1; ubiquitin like modifier activating enzyme 1; anti-UBA1 antibody

PRODUCT SPECIFICATIONS

Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Specificity	No cross reactivity with other proteins.
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Sequence Length	1058
Applicable Applications for anti-UBA1 antibody	WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human UBA1 (102-139aa HDQGTAQWADLSSQFYLR EEDIGKNRAEVSQPRLAELN), different from the related mouse and rat sequences by one amino acid.
Ig Type	Rabbit IgG
Reconstitution	0.2ml of distilled water will yield a concentration of 500 ug/ml.
Preparation and Storage	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquoted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.



WB (Western Blot)
Western blot analysis of UBA1 expression in rat liver extract (lane 1), mouse liver extract (lane 2), mouse testis extract (lane 3) and HELA whole cell lysates (lane 4). UBA1 at 117KD was detected using rabbit anti- UBA1 Antigen Affinity purified polyclonal antibody at0.5 ug/mL. The blot was developed using chemiluminescence (ECL) method.

ADDITIONAL INFORMATION

Related Product Information for anti-UBA1 antibody	Ubiquitin-like modifier activating enzyme 1 (UBA1) is an enzyme which in humans is encoded by the UBA1 gene. The protein encoded by this gene catalyzes the first step in ubiquitin conjugation, or ubiquitination, to mark cellular proteins for degradation. Specifically, UBA1 catalyzes the ATP-dependent adenylation of ubiquitin (Ub), thereby forming a thioester bond between the two. It also continues to participate in subsequent steps of ubiquination as a Ub carrier. UBA1 is one of only two human ubiquitin-activating enzymes (E1), the other being UBA6, and thus is largely responsible for protein ubiquitination in humans. Through its central role in ubiquitination, UBA1 has been linked to cell cycle regulation, endocytosis, signal transduction, apoptosis, DNA damage repair, and transcriptional regulation. Additionally, UBE1 helps regulate the NEDD8 pathway, thus implicating it in protein folding, as well as mitigating the depletion of ubiquitin levels during stress.
References	1. "Entrez Gene: ubiquitin-like modifier activating enzyme 1". 2. Moudry P, Lukas C, Macurek L, Hanzlikova H, Hodny Z, Lukas J, Bartek J (Apr 2012). "Ubiquitin-activating enzyme UBA1 is required for cellular response to DNA damage". Cell Cycle 11 (8): 1573-82.

NCBI AND UNIPROT INFORMATION

NCBI GI #	23510338
NCBI GeneID	7317
NCBI Accession #	NP_003325.2
NCBI GenBank Nucleotide #	NM_003334.3
UniProt Accession #	P22314; Q5JRR8; Q96E13
NCBI Official Full Name	ubiquitin-like modifier-activating enzyme 1
NCBI Official Synonym Full Names	ubiquitin like modifier activating enzyme 1
NCBI Official Symbol	UBA1
NCBI Official Synonym Symbols	A1S9; A1ST; GXP1; UBE1; A1S9T; AMCX1; POC20; SMAX2; UBA1A; UBE1X; CFAP124
NCBI Protein Information	ubiquitin-like modifier-activating enzyme 1
UniProt Protein Name	Ubiquitin-like modifier-activating enzyme 1
UniProt Gene Name	UBA1
UniProt Synonym Gene Names	A1S9T; UBE1

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/polyclonal/uba1-antibody-western-blot-elisa/46258>