

Rabbit E1 Ubiquitin Activating Enzyme Polyclonal Antibody | anti-UBA1 antibody

E1 Ubiquitin Activating Enzyme Antibody

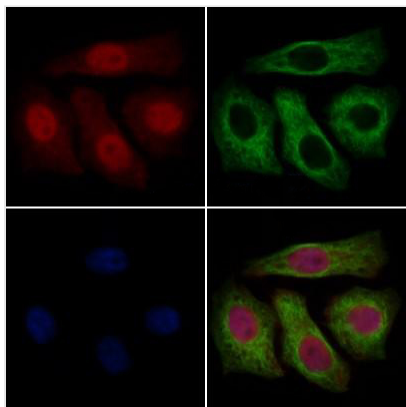
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329139	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig(100%), Bovine(100%), Horse(100%), Sheep(100%), Rabbit(100%), Dog(100%)	ELISA

PRODUCT SYNONYMS

E1 Ubiquitin Activating Enzyme; Polyclonal Antibody; E1 Ubiquitin Activating Enzyme Antibody; 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; 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

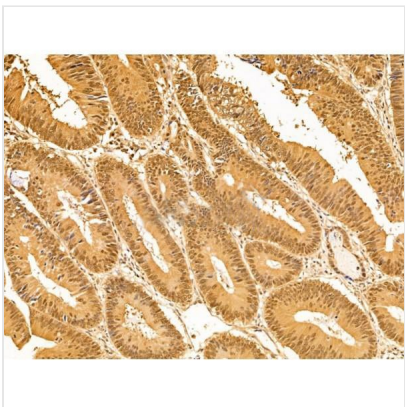
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig(100%), Bovine(100%), Horse(100%), Sheep(100%), Rabbit(100%), Dog(100%)
Clonality	Polyclonal
Isotype	IgG
Specificity	E1 Ubiquitin Activating Enzyme Antibody detects endogenous levels of total E1 Ubiquitin Activating Enzyme.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Concentration	1mg/ml (varies by lot)
Sequence Length	1058
Applicable Applications for anti-UBA1 antibody	ELISA
Immunogen	A synthesized peptide derived from human E1 Ubiquitin Activating Enzyme, corresponding to a region within the internal amino acids.
Fragment	Fab fragment
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



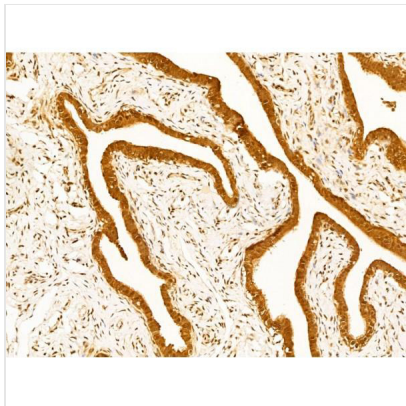
IF (Immunofluorescence)

AAA329139 staining HeLa cells by IF/ICC. The samples were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. Samples were then incubated with primary Ab(AAA329139 1:200) and mouse anti-beta tubulin Ab(T0023 1:200) for 1 hour at 37°C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(Green) were used as the secondary antibody. The nuclear counter stain is DAPI(blue).



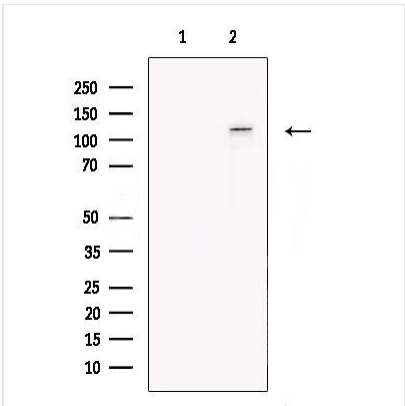
IHC (Immunohistochemistry)

AAA329139 at 1/100 staining Human colorectal cancer by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)

AAA329139 at 1/100 staining Human kidney cancer by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



WB (Western Blot)

Western blot analysis of extracts from A431 cells, using E1 Ubiquitin Activating Enzyme Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-UBA1 antibody

Function: Catalyzes the first step in ubiquitin conjugation to mark cellular proteins for degradation through the ubiquitin-proteasome system (PubMed:1606621, PubMed:1447181). 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 (PubMed:1447181). 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 (PubMed:22456334).

Post Translational Modifications: ISGylated.

Subcellular Location: Cytoplasm. Mitochondrion. Nucleus. Nucleus. Cytoplasm.

Tissue Specificity: Detected in erythrocytes (at protein level). Ubiquitous.

Subunit Structure: Monomer (By similarity). Interacts with GAN (via BTB domain).

Similarity: The first 11 amino acids are essential for phosphorylation and exclusive nuclear localization. Belongs to the ubiquitin-activating E1 family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	24418865
NCBI GeneID	7317
UniProt Accession #	P22314
Molecular Weight	Observed Molecular Weight: (Observed)117kD. Predicted Molecular Weight: (Calculated)118kDa.
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
UniProt Entry Name	UBA1_HUMAN

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/e1-ubiquitin-activating-enzyme-antibody-elisa/329139>