

UBA1

Reactivity: Human Mouse

Tested applications: WB IHC

Recommended Dilution: WB 1:500 - 1:1000 IHC 1:50 - 1:100

Calculated MW: 118kDa

Observed MW: Refer to Figures

Immunogen:

A synthetic peptide of human UBA1

Storage Buffer:

Store at 4. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Concentration:

ij

Synonym:

UBA1;A1S9;A1S9T;A1ST;AMCX1;GXP1;MGC4781;SMAX2;UBA1A;UBE1;UBE1X ;

Catalog #: A0673

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID: 7317

Isotype: IgG

Swiss Prot: P22314

Purity: Affinity purification

For research use only.

Background:

Ubiquitin can be covalently linked to many cellular proteins by the ubiquitination process, which targets proteins for degradation by the 26S proteasome. Three components are involved in the target protein-ubiquitin conjugation process. Ubiquitin is first activated by forming a thiolester complex with the ubiquitin-activating enzyme (UBE1 or E1). The activated ubiquitin is subsequently transferred to the ubiquitin-carrier protein E2, and then from E2 to ubiquitin ligase E3 for final delivery to the -amino group of the target protein lysine residue (1-3). Combinatorial interactions of different E2 and E3 proteins result in substrate specificity (4). UBE1 has two isoforms: UBE1a is a nuclear protein of 117 kDa while UBE1b is a nuclear and cytoplasmic protein of 110 kDa (5).

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