

UBA1 Polyclonal Antibody

Catalog # AP73676

Product Information

Application WB Primary Accession P22314

Reactivity Human, Mouse, Rat

HostRabbitClonalityPolyclonalCalculated MW117849

Additional Information

Gene ID 7317

Other Names UBA1; A1S9T; UBE1; Ubiquitin-like modifier-activating enzyme 1; Protein A1S9;

Ubiquitin-activating enzyme E1

Dilution WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/20000. Not yet tested in other

applications.

Format Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium

azide.

Storage Conditions -20°C

Protein Information

Name UBA1

Synonyms A1S9T, UBE1

Function Catalyzes the first step in ubiquitin conjugation to mark cellular proteins for

degradation through the ubiquitin-proteasome system (PubMed:1447181, PubMed:1606621, PubMed:33108101). 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).

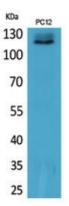
Cellular Location Cytoplasm. Mitochondrion. Nucleus [Isoform 2]: Cytoplasm

Tissue Location Detected in erythrocytes (at protein level). Ubiquitous.

Background

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).

Images



Western Blot analysis of PC12 cells using UBA1 Polyclonal Antibody.. Secondary antibody was diluted at 1:20000

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