

UBA1 Polyclonal Antibody
Catalog # AP73676**Specification****UBA1 Polyclonal Antibody - Product Information**

Application	WB
Primary Accession	P22314
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal

UBA1 Polyclonal Antibody - 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

UBA1 Polyclonal Antibody - 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](http://www.uniprot.org/citations/1447181), PubMed: [1606621](http://www.uniprot.org/citations/1606621), PubMed: [33108101](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/22456334)).

Cellular Location

Cytoplasm. Mitochondrion. Nucleus [Isoform 2]: Cytoplasm

Tissue Location

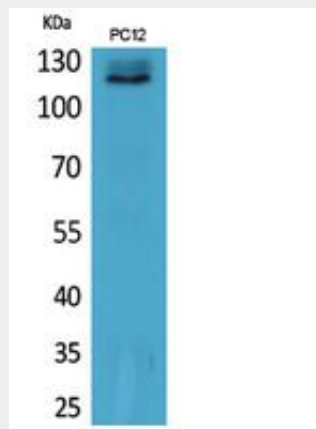
Detected in erythrocytes (at protein level). Ubiquitous.

UBA1 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

UBA1 Polyclonal Antibody - Images



UBA1 Polyclonal Antibody - 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).