

E1 Ubiquitin Activating Enzyme Rabbit mAb
Catalog # AP77976**Specification**

E1 Ubiquitin Activating Enzyme Rabbit mAb - Product Information

Application	WB
Primary Accession	P22314
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	117849

E1 Ubiquitin Activating Enzyme Rabbit mAb - Additional Information**Gene ID** 7317**Other Names**

UBA1

Dilution

WB~~1/500-1/1000

Format

Liquid

E1 Ubiquitin Activating Enzyme Rabbit mAb - 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.

E1 Ubiquitin Activating Enzyme Rabbit mAb - 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](#)

E1 Ubiquitin Activating Enzyme Rabbit mAb - Images

