

# UBA7 Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP51596

## Product Information

Application	WB
Primary Accession	<a href="#">P41226</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	111694

## Additional Information

Gene ID	7318
Other Names	Ubiquitin-like modifier-activating enzyme 7, Ubiquitin-activating enzyme 7, D8, Ubiquitin-activating enzyme E1 homolog, UBA7, UBE1L, UBE2
Target/Specificity	KLH conjugated synthetic peptide derived from human UBA7
Dilution	WB~~ 1:1000
Format	0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%
Storage	Store at -20 °C.Stable for 12 months from date of receipt

## Protein Information

Name	UBA7 {ECO:0000303   PubMed:28397838, ECO:0000312   HGNC:HGNC:12471}
Function	E1-activating enzyme that catalyzes the covalent conjugation of the ubiquitin-like protein product of ISG15 to additional interferon stimulated proteins (ISGs) as well as other cellular proteins such as P53 in a process termed protein ISGylation (PubMed: <a href="#">27545325</a> ). Plays an essential role in antiviral immunity together with ISG15 by restricting the replication of many viruses including rabies virus, influenza virus, sindbis virus, rotavirus or human cytomegalovirus (PubMed: <a href="#">16254333</a> , PubMed: <a href="#">19073728</a> , PubMed: <a href="#">29056542</a> , PubMed: <a href="#">29743376</a> , PubMed: <a href="#">37722521</a> ). For example, ISG15 modification of influenza A protein NS1 disrupts the association of the NS1 with importin-alpha leading to NS1 nuclear import inhibition (PubMed: <a href="#">20133869</a> ). ISGylation of human cytomegalovirus protein UL26 regulates its stability and inhibits its activities to suppress NF-kappa-B signaling (PubMed: <a href="#">27564865</a> ).
Cellular Location	Cytoplasm. Nucleus

**Tissue Location**

Expressed in a variety of normal and tumor cell types, but is reduced in lung cancer cell lines

**Background**

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Activates ubiquitin by first adenylating with ATP its C- terminal glycine residue and thereafter linking this residue to the side chain of a cysteine residue in E1, yielding an ubiquitin- E1 thioester and free AMP. Catalyzes the ISGylation of influenza A virus NS1 protein.

**References**

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Kok K.,et al.Proc. Natl. Acad. Sci. U.S.A. 90:6071-6075(1993).

Kok K.,et al.Gene Expr. 4:163-175(1995).

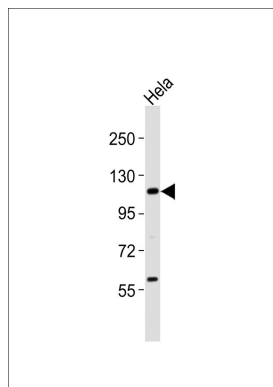
Kalnine N.,et al.Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.

Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.

Gevaert K.,et al.Nat. Biotechnol. 21:566-569(2003).

**Images**

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Anti-UBA7 Antibody at 1:1000 dilution + HeLa whole cell lysates. Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 112 kDa. Blocking/Dilution buffer: 5% NFDM/TBST.

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