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UBA7 Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51596

Specification

UBA7 Antibody - Product Information

Application	**WB**
Primary Accession	P41226
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**112 KDa**
Antigen Region	**951 - 1010**

UBA7 Antibody - 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

UBA7 Antibody - 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:27545325). 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:16254333, PubMed:19073728, PubMed:29056542,

PubMed:29743376, PubMed:37722521). 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:20133869). ISGylation of human cytomegalovirs protein UL26 regulates its stability and inhibits its activities to suppress NF-kappa-B signaling (PubMed:27564865).

Cellular Location
Cytoplasm. Nucleus

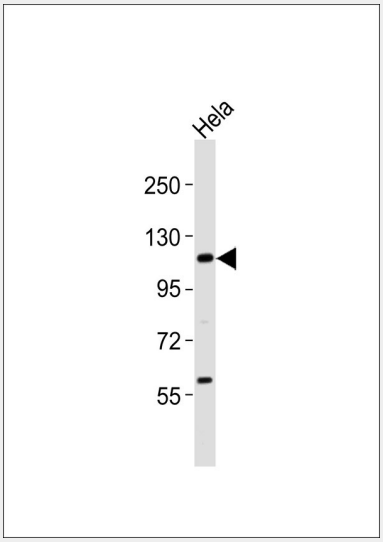
Tissue Location
Expressed in a variety of normal and tumor cell types, but is reduced in lung cancer cell lines

UBA7 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 Cytomety
- Cell Culture

UBA7 Antibody - Images



Anti-UBA7 Antibodyat 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.

UBA7 Antibody - Background

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.

UBA7 Antibody - References

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).