

## Product datasheet

# Anti-Uba6 antibody ab118344

[3 Images](#)

### Overview

<b>Product name</b>	Anti-Uba6 antibody
<b>Description</b>	Mouse monoclonal to Uba6
<b>Host species</b>	Mouse
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P, Sandwich ELISA
<b>Species reactivity</b>	<b>Reacts with:</b> Human, Recombinant fragment
<b>Immunogen</b>	Recombinant fragment corresponding to amino acids 962-1052 of Human Uba6 with proprietary 26 kDa tag (NP_060697). <a href="#">Run BLAST with ExPASy</a> <a href="#">Run BLAST with NCBI</a>
<b>Positive control</b>	Human testis tissue

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
<b>Storage buffer</b>	pH: 7.20 Constituent: 99% PBS
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Isotype</b>	IgG2b
<b>Light chain type</b>	kappa

### Applications

Our [Abpromise guarantee](#) covers the use of **ab118344** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
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Application	Abreviews	Notes
WB		Use a concentration of 1 - 5 µg/ml. Detects a band of approximately 36.01 kDa (predicted molecular weight: 118 kDa). This antibody has only been tested in WB against the recombinant fragment used as immunogen. We have no data on the detection of endogenous protein
IHC-P		Use a concentration of 3 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
Sandwich ELISA		Use a concentration of 10 µg/ml.

## Target

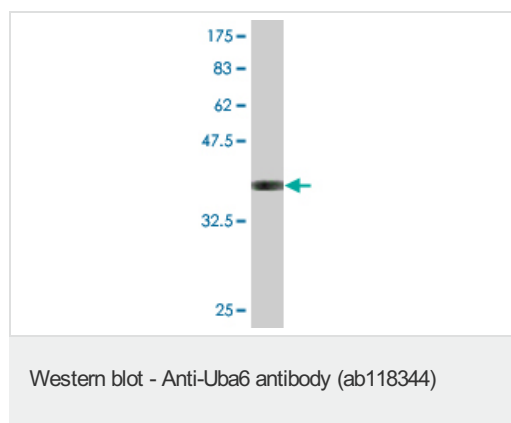
**Function** Activates ubiquitin by first adenylating its C-terminal glycine residue with ATP, and thereafter linking this residue to the side chain of a cysteine residue in E1, yielding an ubiquitin-E1 thioester and free AMP. Specific for ubiquitin, does not activate ubiquitin-like peptides. Differs from UBE1 in its specificity for substrate E2 charging. Does not charge cell cycle E2s, such as CDC34. Essential for embryonic development. Required for UBD/FAT10 conjugation. Isoform 2 may play a key role in ubiquitin system and may influence spermatogenesis and male fertility.

**Tissue specificity** Widely expressed. Isoform 2 is predominantly expressed in testis with higher expression in adult testis than in fetal testis.

**Pathway** Protein modification; protein ubiquitination.

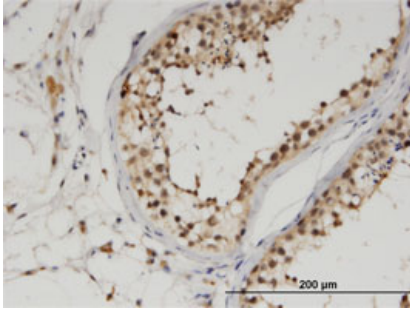
**Sequence similarities** Belongs to the ubiquitin-activating E1 family.

## Images



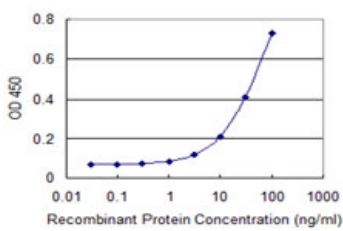
Anti-Uba6 antibody (ab118344) at 5 µg/ml +  
Immunogen peptide at 0.2 µg

**Predicted band size:** 118 kDa



ab118344, at 3  $\mu\text{g/ml}$  staining Uba6 in formalin-fixed, paraffin-embedded Human testis by Immunohistochemistry.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Uba6 antibody (ab118344)



Detection limit for ab118344 is 1 ng/ml as a capture antibody.

Sandwich ELISA - Anti-Uba6 antibody (ab118344)

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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