

## Product datasheet

# Anti-Ubiquitin +1 antibody [40B3] ab24259

★★★★☆ 1 Abreviews 1 References

### Overview

<b>Product name</b>	Anti-Ubiquitin +1 antibody [40B3]
<b>Description</b>	Mouse monoclonal [40B3] to Ubiquitin +1
<b>Host species</b>	Mouse
<b>Tested applications</b>	<b>Suitable for:</b> ELISA, IP, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide (Human) conjugated to KLH
<b>Positive control</b>	Bosc23 cell lysate transfected with GFP Ub +1.

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	Preservative: None Constituents: 50% Glycerol, PBS
<b>Purity</b>	Protein G purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	40B3
<b>Isotype</b>	IgG1
<b>Light chain type</b>	kappa

### Applications

Our [Abpromise guarantee](#) covers the use of **ab24259** 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
ELISA		Use at an assay dependent dilution.
IP		Use a concentration of 1 - 2 µg/ml.

Application	Abreviews	Notes
WB	★★★★☆	1/500 - 1/1000. Predicted molecular weight: 9 kDa.

## Target

**Relevance** Ubiquitin +1 (Ub+1) is a novel mutant form of ubiquitin that can be produced through a process known as molecular frameshift. Ub+1 can be polyubiquitinated to produce aberrant polyubiquitin chains that inhibit the 26S proteasome. Especially Ub+1 is accumulated in aggregates containing amyloid beta and phosphorylated tau. Elevated expression of Ub+1 mRNA and protein has been observed in the brains of patients with Alzheimer's disease. Also Ub+1 acts as an aggravating factor in polyglutamine induced neurodegeneration.

**Cellular localization** Cytoplasmic and Nuclear

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