

# Anti-USP16 antibody [EPR20914-47] - BSA and Azide free ab269961

Recombinant RabMAb

2 Images

### Overview

Product name	Anti-USP16 antibody [EPR20914-47] - BSA and Azide free
Description	Rabbit monoclonal [EPR20914-47] to USP16 - BSA and Azide free
Host species	Rabbit
Tested applications	<b>Suitable for:</b> WB <b>Unsuitable for:</b> Flow Cyt, ICC/IF, IHC-Fr, IHC-P or IP
Species reactivity	<b>Reacts with:</b> Mouse, Rat
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Rat testis and liver lysates; Mouse testis lysate; MEF whole cell lysate.
General notes	<p>ab269961 is the carrier-free version of <a href="#">ab236628</a>.</p> <p>Our <b>carrier-free</b> antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our <b>conjugation kits</b> for antibody conjugates that are ready-to-use in as little as 20 minutes with &lt;1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar<sup>®</sup> Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar<sup>®</sup> is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

## Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR20914-47
Isotype	IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab269961 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

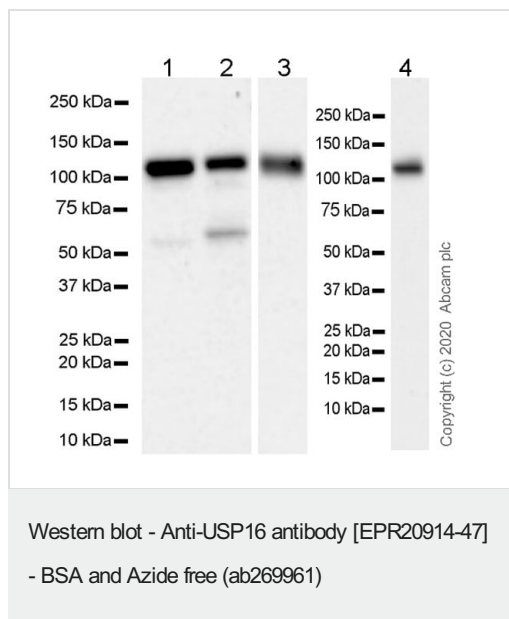
Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Detects a band of approximately 110 kDa (predicted molecular weight: 94 kDa).

**Application notes** Is unsuitable for Flow Cyt, ICC/IF, IHC-Fr, IHC-P or IP.

## Target

Function	Specifically deubiquitinates histone H2A, a specific tag for epigenetic transcriptional repression, thereby acting as a coactivator. Deubiquitination of histone H2A is a prerequisite for subsequent phosphorylation at 'Ser-10' of histone H3, and is required for chromosome segregation when cells enter into mitosis. Regulates Hox gene expression via histone H2A deubiquitination. Prefers nucleosomal substrates. Does not deubiquitinate histone H2B.
Tissue specificity	Present in all the tissues examined including fetal brain, lung, liver, kidney, and adult heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas.
Involvement in disease	Note=A chromosomal aberration involving USP16 is a cause of Chronic myelomonocytic leukemia. Inversion inv(21) (q21;q22) with RUNX1/AML1.
Sequence similarities	Belongs to the peptidase C19 family. USP16 subfamily. Contains 1 UBP-type zinc finger.
Domain	The UBP-type zinc finger binds 3 zinc ions that form a pair of cross-braced ring fingers encapsulated within a third zinc finger in the primary structure. It recognizes the C-terminal tail of free ubiquitin.
Post-translational modifications	Phosphorylated at the onset of mitosis and dephosphorylated during the metaphase/anaphase transition. The phosphorylated form of the protein is also enzymatically active.
Cellular localization	Nucleus.

## Images



**All lanes :** Anti-USP16 antibody [EPR20914-47] ([ab236628](#)) at 1/1000 dilution

**Lane 1 :** Rat testis tissue lysate at 20 µg

**Lane 2 :** Rat liver tissue lysate at 20 µg

**Lane 3 :** Mouse testis tissue lysate at 20 µg

**Lane 4 :** MEF (mouse embryonic fibroblast (immortalized)), whole cell lysate at 10 µg

### Secondary

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

**Predicted band size:** 94 kDa

**Observed band size:** 110 kDa

Blocking and diluting buffer and concentration: 5% NFDM/TBST.

The molecular weight observed is consistent with what has been described in the literature (PMID: 26323689).

Exposure time: Lanes 1-3: 3 minutes Lane 4: 48 seconds

This data was developed using the same antibody clone in a different buffer formulation containing PBS, glycerol, BSA and sodium azide ([ab236628](#)).

Why choose a recombinant antibody?

**Research with confidence**  
Consistent and reproducible results

**Long-term and scalable supply**  
Recombinant technology

**Success from the first experiment**  
Confirmed specificity

**Ethical standards compliant**  
Animal-free production

Anti-USP16 antibody [EPR20914-47] - BSA and Azide free (ab269961)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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