


## Product datasheet

### Anti-OS9 antibody [EPR4272(2)] ab109510

Recombinant **RabMAb**

★★★★★ [1 Abreviews](#) [7 References](#) [3 Images](#)

#### Overview

<b>Product name</b>	Anti-OS9 antibody [EPR4272(2)]
<b>Description</b>	Rabbit monoclonal [EPR4272(2)] to OS9
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P <b>Unsuitable for:</b> Flow Cyt
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Human <b>Predicted to work with:</b> Rat 
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	NIH3T3, 293T, HL-60, and HeLa cell lysates, Mouse testis tissue
<b>General notes</b>	<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

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Stable for 12 months at -20°C.
<b>Storage buffer</b>	pH: 7.2 Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal

Clone number	EPR4272(2)
Isotype	IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab109510 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

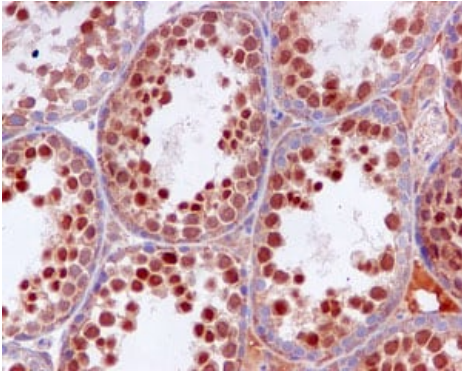
Application	Abreviews	Notes
WB	★★★★★ (1)	1/10000 - 1/50000. Predicted molecular weight: 76 kDa.
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

**Application notes** Is unsuitable for Flow Cyt.

## Target

<b>Function</b>	Lectin which functions in endoplasmic reticulum (ER) quality control and ER-associated degradation (ERAD). May bind terminally misfolded non-glycosylated proteins as well as improperly folded glycoproteins, retain them in the ER, and possibly transfer them to the ubiquitination machinery and promote their degradation. Possible targets include TRPV4.
<b>Tissue specificity</b>	Ubiquitously expressed. Found as well in all tumor cell lines analyzed, amplified in sarcomas. Highly expressed in osteosarcoma OSA-CL and rhabdomyosarcoma RH30 cell lines. Isoform 2 is the major isoform detected in all cell types examined.
<b>Sequence similarities</b>	Belongs to the OS-9 family. Contains 1 PRKCSH domain.
<b>Post-translational modifications</b>	Intramolecular disulfide bonds. Isoform 1 and isoform 2 are N-glycosylated.
<b>Cellular localization</b>	Endoplasmic reticulum lumen.

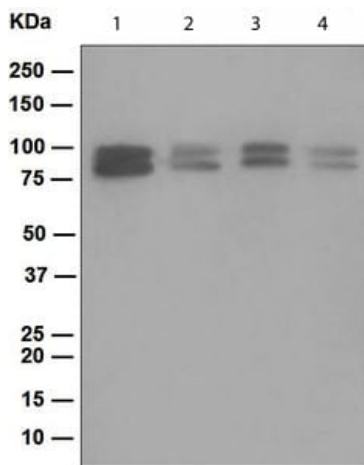
## Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-OS9 antibody [EPR4272(2)] (ab109510)

Immunohistochemical analysis of paraffin-embedded Mouse testis tissue using ab109510 at a dilution of 1/100.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Western blot - Anti-OS9 antibody [EPR4272(2)] (ab109510)

**All lanes :** Anti-OS9 antibody [EPR4272(2)] (ab109510) at 1/10000 dilution

**Lane 1 :** NIH3T3 cell lysate

**Lane 2 :** 293T cell lysate

**Lane 3 :** HL-60 cell lysate

**Lane 4 :** HeLa cell lysate

Lysates/proteins at 10 µg per lane.

**Predicted band size:** 76 kDa

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-OS9 antibody [EPR4272(2)] (ab109510)

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

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