

## Product datasheet

# Anti-ROS1 antibody [EPMGHR2] - BSA and Azide free ab238986

Recombinant RabMAb

[4 Images](#)

### Overview

<b>Product name</b>	Anti-ROS1 antibody [EPMGHR2] - BSA and Azide free
<b>Description</b>	Rabbit monoclonal [EPMGHR2] to ROS1 - BSA and Azide free
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	IHC-P: Human lung carcinoma tissue. WB: U-118 MG whole cell lysate.
<b>General notes</b>	<p>ab238986 is the carrier-free version of <a href="#">ab189925</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

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C. Do Not Freeze.
<b>Storage buffer</b>	pH: 7.2 Constituent: PBS
<b>Carrier free</b>	Yes
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPMGHR2
<b>Isotype</b>	IgG

## Applications

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**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab238986 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. Predicted molecular weight: 264 kDa.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

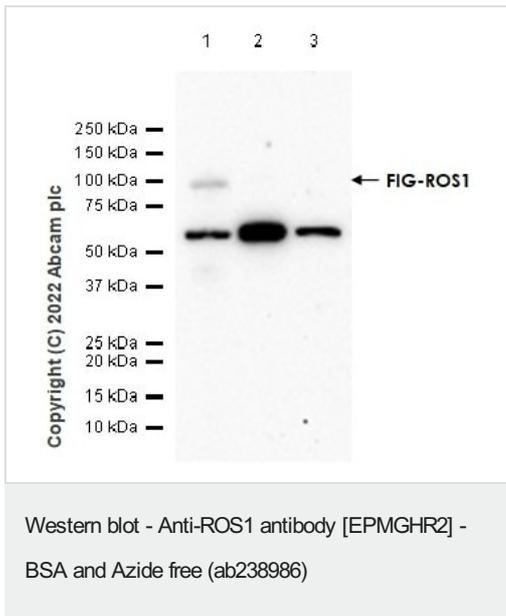
## Target

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<b>Function</b>	This is probably a cell growth or differentiation factor receptor with a tyrosine-protein kinase activity.
<b>Tissue specificity</b>	Expressed in brain. Expression is increased in primary gliomas.
<b>Involvement in disease</b>	Note=A chromosomal aberration involving ROS1 is found in a glioblastoma multiforme sample. An intra-chromosomal deletion del(6)(q21q21) is responsible for the formation of GOPC-ROS1 chimeric protein which has a constitutive receptor tyrosine kinase activity.
<b>Sequence similarities</b>	Belongs to the protein kinase superfamily. Tyr protein kinase family. Insulin receptor subfamily. Contains 9 fibronectin type-III domains. Contains 1 protein kinase domain.
<b>Cellular localization</b>	Membrane.

## Images

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**All lanes :** Anti-ROS1 antibody [EPMGHR2] ([ab189925](#)) at 1/1000 dilution

**Lane 1 :** U-118 MG (Human brain glioblastoma) whole cell lysate

**Lane 2 :** Saos-2 (Human osteosarcoma epithelial) whole cell lysate

**Lane 3 :** SW1353 (Human chondrosarcoma fibroblast) whole cell lysate

Lysates/proteins at 20 µg per lane.

#### Secondary

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

**Predicted band size:** 264 kDa

**Observed band size:** 100 kDa

**Exposure time:** 180 seconds

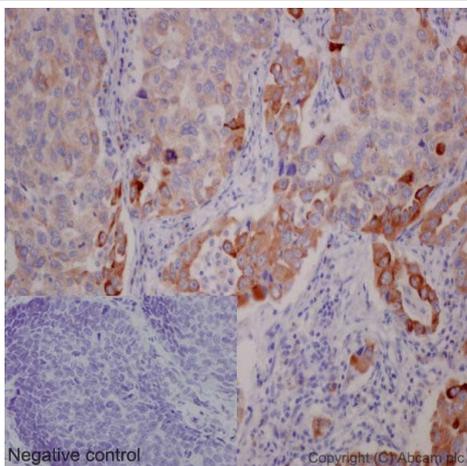
**Blocking buffer and concentration :** 5% NFDM/TBST

**Diluting buffer and concentration :** 5% NFDM /TBST

We advise using U-118MG (FIG-ROS1 fusion) or HCC78 (SLC34A2-ROS1 fusion) as a positive cell line by WB. We have been unable to identify a positive control cell line for endogenous full-length ROS1.

The identity of the lower MW band at approximately 60kDa is unknown.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab189925](#)).

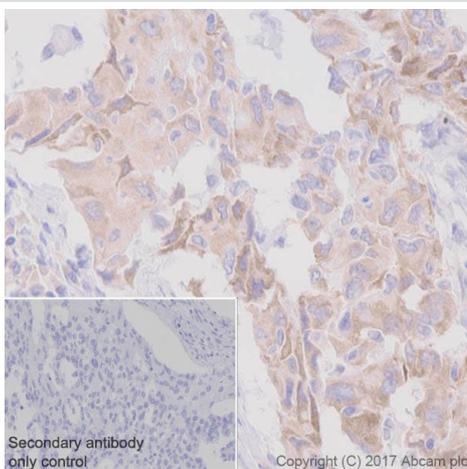


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ROS1 antibody [EPMGHR2] - BSA and Azide free (ab238986)

Immunohistochemical analysis of paraffin-embedded Human lung carcinoma tissue labeling ROS1 with unpurified **ab189925** at 1/250 dilution followed by prediluted HRP Polymer for Rabbit IgG. Counter stained with Hematoxylin. (Inset: negative control).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab189925**).

Heat mediated antigen retrieval was performed with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ROS1 antibody [EPMGHR2] - BSA and Azide free (ab238986)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human lung carcinoma tissue sections labeling ROS1 with Purified **ab189925** at 1:300 dilution (5.23 µg/ml). Heat mediated antigen retrieval was performed using EDTA Buffer, pH9.0. Tissue was counterstained with Hematoxylin.

ImmunoHistoProbe one step HRP Polymer (ready to use) secondary antibody was used at 1:0 dilution. PBS instead of the primary antibody was used as the negative control.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab189925**).

### 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-ROS1 antibody [EPMGHR2] - BSA and Azide free (ab238986)

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

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