

## Product datasheet

### Anti-ROS1 antibody [EPMGHR2] ab189925

Recombinant RabMAb

★ ★ ★ ★ ★ [1 Abreviews](#) [2 References](#) [4 Images](#)

#### Overview

Product name	Anti-ROS1 antibody [EPMGHR2]
Description	Rabbit monoclonal [EPMGHR2] to ROS1
Host species	Rabbit
Tested applications	<b>Suitable for:</b> IHC-P, WB
Species reactivity	<b>Reacts with:</b> Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	IHC-P: Human lung carcinoma tissue. WB: U-118 MG whole cell lysate.
General notes	<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 short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 40% Glycerol (glycerin, glycerine), 0.05% BSA, PBS</p>
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPMGHR2
Isotype	IgG

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab189925 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
IHC-P	★ ★ ★ ★ ★ (1)	1/300. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. <b>For unpurified use at 1/100-1/250. See <u>IHC antigen retrieval protocols</u>.</b>
WB		1/1000. Predicted molecular weight: 264 kDa.

## Target

### Function

This is probably a cell growth or differentiation factor receptor with a tyrosine-protein kinase activity.

### Tissue specificity

Expressed in brain. Expression is increased in primary gliomas.

### Involvement in disease

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.

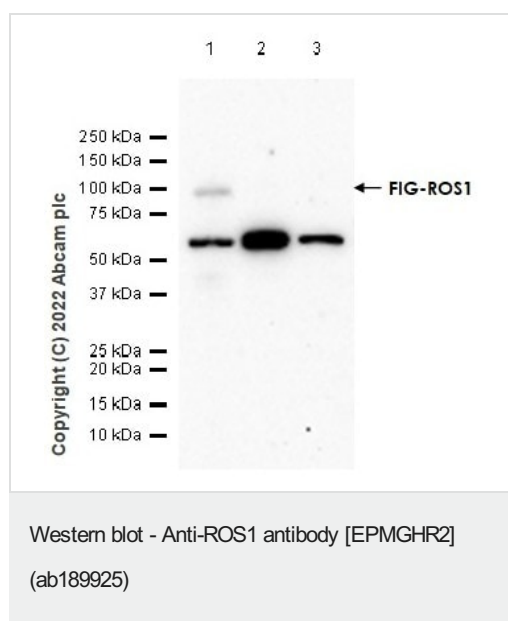
### Sequence similarities

Belongs to the protein kinase superfamily. Tyr protein kinase family. Insulin receptor subfamily. Contains 9 fibronectin type-III domains.  
Contains 1 protein kinase domain.

### Cellular localization

Membrane.

## Images



**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

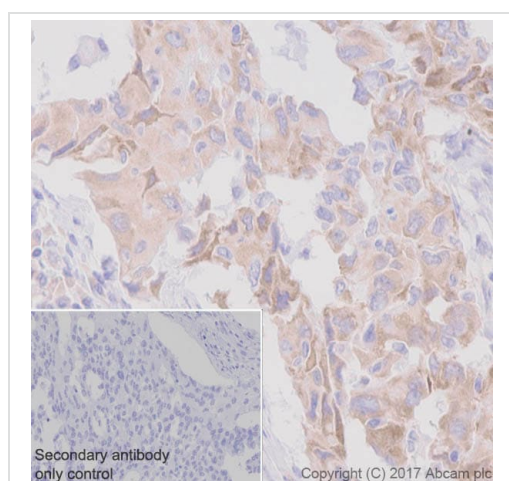
**Exposure time:** 180 seconds

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

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

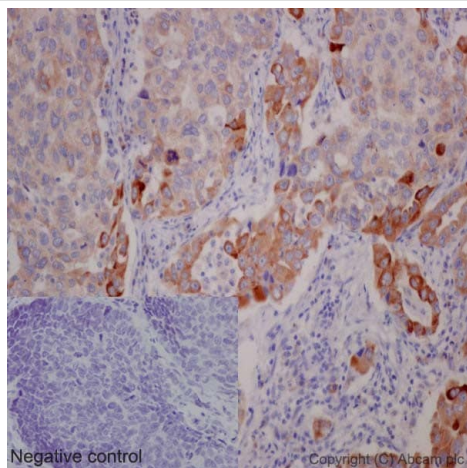
We advise using U-118MG (FIG-ROS1 fusion) or HCC78 (SLC34A2-ROS1 fusion) as a positive cell line by WB. We have been unable to identify a positive control cell line for endogenous full-length ROS1.

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



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.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ROS1 antibody [EPMGHR2] (ab189925)



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).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ROS1 antibody  
[EPMGHR2] (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] (ab189925)

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

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