

ROS1 Antibody

Purified Mouse Monoclonal Antibody (Mab)

Catalog # AM8639b

Specification

ROS1 Antibody - Product Information

Application	IHC, WB,E
Primary Accession	P08922
Reactivity	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG1,k
Calculated MW	263915

ROS1 Antibody - Additional Information

Gene ID 6098

Other Names

Proto-oncogene tyrosine-protein kinase ROS, 2.7.10.1, Proto-oncogene c-Ros, Proto-oncogene c-Ros-1, Receptor tyrosine kinase c-ros oncogene 1, c-Ros receptor tyrosine kinase, ROS1, MCF3, ROS

Target/Specificity

This ROS1 antibody is generated from a mouse immunized with a recombinant protein of human ROS1.

Dilution

IHC~~1:250
WB~~1:4000

Format

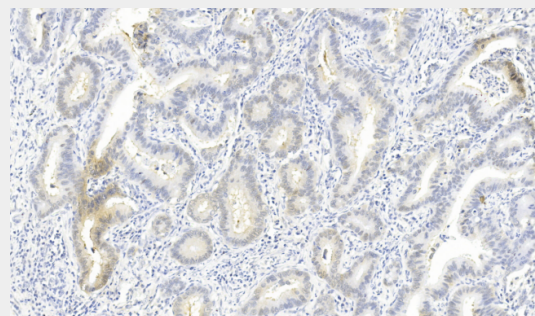
Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.

Storage

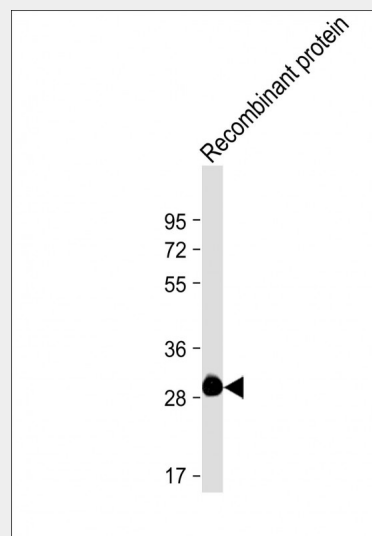
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

ROS1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.



Immunohistochemical analysis of paraffin-embedded Human Lung adenocarcinoma section using Pink1(Cat#AM8639b). AM8639b was diluted at 1:250 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.



Anti-ROS1 Antibody at 1:4000 dilution + Recombinant protein Lysates/proteins at 20ng per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 264 kDa
Blocking/Dilution buffer: 5% NFDM/TBST.

ROS1 Antibody - Background

Orphan receptor tyrosine kinase (RTK) that

ROS1 Antibody - Protein Information**Name** ROS1**Synonyms** MCF3, ROS**Function**

Orphan receptor tyrosine kinase (RTK) that plays a role in epithelial cell differentiation and regionalization of the proximal epididymal epithelium. May activate several downstream signaling pathways related to cell differentiation, proliferation, growth and survival including the PI3 kinase-mTOR signaling pathway. Mediates the phosphorylation of PTPN11, an activator of this pathway. May also phosphorylate and activate the transcription factor STAT3 to control anchorage-independent cell growth. Mediates the phosphorylation and the activation of VAV3, a guanine nucleotide exchange factor regulating cell morphology. May activate other downstream signaling proteins including AKT1, MAPK1, MAPK3, IRS1 and PLCG2.

Cellular Location

Cell membrane; Single-pass type I membrane protein

Tissue Location

Expressed in brain. Expression is increased in primary gliomas.

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ROS1 Antibody - References

Birchmeier C., et al. Proc. Natl. Acad. Sci. U.S.A. 87:4799-4803(1990).
Mungall A.J., et al. Nature 425:805-811(2003).
Matsushime H., et al. Mol. Cell. Biol. 6:3000-3004(1986).
Birchmeier C., et al. Mol. Cell. Biol. 6:3109-3116(1986).
Watkins D., et al. Cancer Genet. Cytogenet. 72:130-136(1994).

ROS1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)