

ROS1 Antibody

Purified Mouse Monoclonal Antibody (Mab)
Catalog # AM8639b-200 □

Specification

ROS1 Antibody - Product info

Application	WB
Primary Accession	P08922
Reactivity	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG1,k
Clone Names	1843CT776.78.21
Calculated MW	263915

ROS1 Antibody - Additional info

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

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.

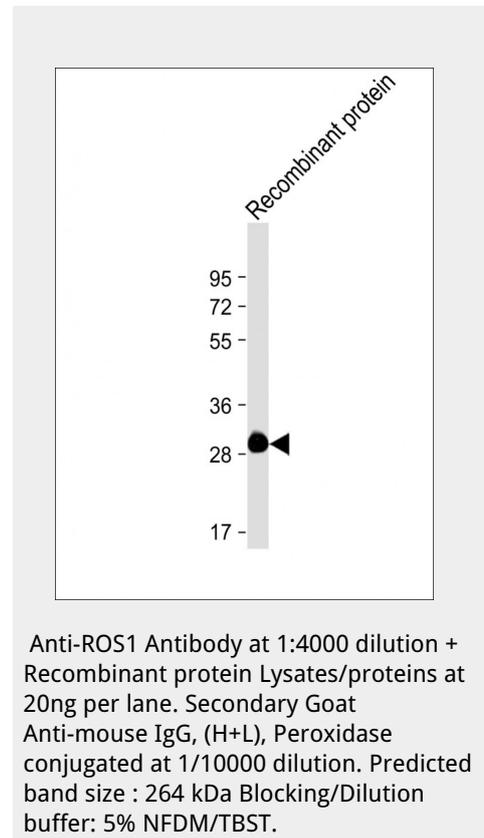
ROS1 Antibody - Protein Information

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.

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](#)

ROS1 Antibody - Background

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.

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).