

**ROS1 Antibody (C-Term)**  
Peptide-affinity purified goat antibody  
Catalog # AF3777a**Specification**

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**ROS1 Antibody (C-Term) - Product Information**

Application	<b>E</b>
Primary Accession	<a href="#">P08922</a>
Other Accession	<a href="#">NP_002935.2</a> , <a href="#">6098</a>
Predicted	<b>Human</b>
Host	<b>Goat</b>
Clonality	<b>Polyclonal</b>
Concentration	<b>0.5 mg/ml</b>
Isotype	<b>IgG</b>
Calculated MW	<b>263915</b>

**ROS1 Antibody (C-Term) - 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

**Format**

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

ROS1 Antibody (C-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

**ROS1 Antibody (C-Term) - Protein Information****Name** ROS1**Synonyms** MCF3, ROS**Function**

Receptor tyrosine kinase (RTK) that plays a role in epithelial cell differentiation and regionalization of the proximal epididymal epithelium. NELL2 is an endogenous ligand for ROS1. Upon endogenous stimulation by NELL2, ROS1 activates the intracellular signaling pathway and triggers epididymal epithelial differentiation and subsequent sperm maturation (By similarity). 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 (C-Term) - 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 (C-Term) - Images****ROS1 Antibody (C-Term) - References**

Identification of four gene variants associated with myocardial infarction. Shiffman D, Ellis SG, Rowland CM, Malloy MJ, Luke MM, Iakoubova OA, Pullinger CR, Cassano J, Aouizerat BE, Fenwick RG, Reitz RE, Catanese JJ, Leong DU, Zellner C, Sninsky JJ, Topol EJ, Devlin JJ, Kane JP. Am J Hum Genet. 2005 Oct;77(4):596-605. PMID: 16175505