

## Anti-ROS1 antibody



<b>Description</b>	Unconjugated Rabbit polyclonal to ROS1
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<b>Model</b>	STJ190117
<b>Host</b>	Rabbit
<b>Reactivity</b>	Human, Mouse, Rat
<b>Applications</b>	IHC
<b>Immunogen</b>	Synthesized peptide derived from human ROS1 protein.
<b>Immunogen Region</b>	2210-2290aa
<b>Gene ID</b>	<a href="#">6098</a>
<b>Gene Symbol</b>	<a href="#">ROS1</a>
<b>Dilution range</b>	IHC-p 1:50-300
<b>Specificity</b>	ROS1 Polyclonal Antibody detects endogenous levels of protein.
<b>Tissue Specificity</b>	Expressed in brain. Expression is increased in primary gliomas.
<b>Purification</b>	ROS1 antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Note</b>	For Research Use Only (RUO).
<b>Protein Name</b>	Proto-oncogene tyrosine-protein kinase ROS Proto-oncogene c-Ros Proto-oncogene c-Ros-1 Receptor tyrosine kinase c-ros oncogene 1 c-Ros receptor tyrosine kinase
<b>Molecular Weight</b>	258 kDa
<b>Clonality</b>	Polyclonal

<b>Conjugation</b>	Unconjugated
<b>Isotype</b>	IgG
<b>Formulation</b>	Liquid form in PBS containing 50% glycerol, and 0.02% sodium azide.
<b>Concentration</b>	1 mg/ml
<b>Storage Instruction</b>	Store at -20°C, and avoid repeat freeze-thaw cycles.
<b>Database Links</b>	<a href="#">HGNC:10261</a> <a href="#">OMIM:165020</a>
<b>Alternative Names</b>	Proto-oncogene tyrosine-protein kinase ROS Proto-oncogene c-Ros Proto-oncogene c-Ros-1 Receptor tyrosine kinase c-ros oncogene 1 c-Ros receptor tyrosine kinase
<b>Function</b>	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.
<b>Cellular Localization</b>	Cell membrane
<b>Post-translational Modifications</b>	Phosphorylated. Probably autophosphorylates. Phosphorylation at Tyr-2274 is required for the interaction with PTPN6 that mediates ROS1 dephosphorylation. Phosphorylation at Tyr-2274 stimulates the kinase activity and the activation of the ERK1 signaling cascade. Phosphorylation at Tyr-2274 and/or Tyr-2334 recruits PTPN11.

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