Anti-ROS1 antibody

Description	Unconjugated Rabbit polyclonal to ROS1

Model	STJ190117
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	IHC
Immunogen	Synthesized peptide derived from human ROS1 protein.
Immunogen Region	2210-2290aa
Gene ID	6098
Gene Symbol	ROS1
Dilution range	IHC-p 1:50-300
Specificity	ROS1 Polyclonal Antibody detects endogenous levels of protein.
Tissue Specificity	Expressed in brain. Expression is increased in primary gliomas.
Purification	ROS1 antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	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
Molecular Weight	258 kDa
Clonality	Polyclonal

Conjugation	Unconjugated
Isotype	IgG
Formulation	Liquid form in PBS containing 50% glycerol,and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:10261OMIM:165020
Alternative Names	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
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 Localization	Cell membrane
Post-translational Modifications	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.