ROS1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ROS1, Polyclonal Antibody
Full Product Name	ROS1 (C-Term) Rabbit pAb
Product Gene Name	anti-ROS1 antibody
Product Synonym Names	ROS; MCF3; c-ros-1
Clonality	Polyclonal
Isotype	Ig
Host	Rabbit
Species Reactivity	Human
Form/Format	PBS with 0.09% (W/V) Sodium Azide, pH 7.3.
Purity/Purification	Protein A/G
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Molecular Weight	264kDa
OMIM	165020
3D Structure	ModBase 3D Structure for P08922
Immunogen	This ROS1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 1744-1777 amino acids from the C-terminal region of human ROS1.
Cellular Localization	Cell Membrane, Membrane
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ROS1 antibody	Western Blot (WB)
Application Notes for anti-ROS1 antibody	WB: 1:1000
Related Product Information for anti-ROS1 antibody	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.
Other Notes	Small volumes of anti-ROS1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ROS1 purchase	MBS8558982 is an antibody targeting ROS1. Also known as ROS1 (C-Term) Rabbit pAb. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ROS1. It may not necessarily be applicable to this product.

NCBI GI #	19924165
NCBI GeneID	6098
NCBI Accession #	NP_002935.2
UniProt Primary Accession #	P08922
UniProt Related Accession #	P08922
GenBank Nucleotide #	NP_002935.2
NCBI Official Full Name	proto-oncogene tyrosine-protein kinase ROS
NCBI Official Synonym Full Names	ROS proto-oncogene 1, receptor tyrosine kinase
NCBI Official Symbol	ROS1
NCBI Official Synonym Symbols	ROS; MCF3; c-ros-1
UniProt Protein Name	Proto-oncogene tyrosine-protein kinase ROS
UniProt Synonym Protein Names	Proto-oncogene c-Ros; Proto-oncogene c-Ros-1; Receptor tyrosine kinase c-ros oncogene 1; c-Ros receptor tyrosine kinase
Protein Family	Protein
UniProt Gene Name	ROS1
UniProt Synonym Gene Names	MCF3; ROS
UniProt Entry Name	ROS1_HUMAN
NCBI Protein Information	proto-oncogene tyrosine-protein kinase ROS
NCBI Summary for ROS1	This proto-oncogene, highly-expressed in a variety of tumor cell lines, belongs to the sevenless subfamily of tyrosine kinase insulin receptor genes. The protein encoded by this gene is a type I integral membrane protein with tyrosine kinase activity. The protein may function as a growth or differentiation factor receptor. [provided by RefSeq, Jul 2008]
UniProt Comments for ROS1	ROS: a proto-oncogenic receptor tyrosine kinase whose expression is tightly restricted during development. Normally expressed in adult murine and human epithelial cells of the epididymis. Transgenic mice lacking the c-ros gene are infertile. Ectopic expression of c-Ros has been reported in meningiomas and astrocytomas. Is up-regulated in human glioma: 30% of malignant glioma tumors are ROS positive. An oncogenic fusion protein between PIST (aka FIG) and ROS, resulting from an intra-chromosomal homozygous deletion of 240 kilobases on 6q21, is found in glioblastoma multiform. PIST (aka FIG) is a peripheral membrane protein associated with the Golgi apparatus. Unlike other fusion RTK oncogenes, the mechanism of activation of PIST-ROS does not appear to be dimerization: the PIST-ROS fusion protein appears to be monomeric in vivo. Rather, activation of the fused ROS kinase appears to depend upon translocation to the golgi apparatus: deletion of 2nd coiled-coil region of PIST, crucial for Golgi localization, appears to eliminate the transformation capacity of PIST-ROS. c-ROS may also be activated epigenetically, suggesting caution when using 5-aza-dC for treating glioma. Protein type: Kinase, protein; Protein kinase, tyrosine (receptor); Oncoprotein; EC 2.7.10.1; Protein kinase, TK; Membrane protein, integral; TK group; Sev family Chromosomal Location of Human Ortholog: 6q22 Cellular Component: membrane; integral to membrane; plasma membrane Molecular Function: protein binding; protein-tyrosine kinase activity; transmembrane receptor protein tyrosine kinase activity; protein phosphatase binding; ATP binding Biological Process: cell proliferation; peptidyl-tyrosine phosphorylation; spermatogenesis; cell growth; cell differentiation; columnar/cuboidal epithelial cell development; protein amino acid phosphorylation; transmembrane receptor protein tyrosine kinase signaling pathway; regulation of TOR signaling pathway
Research Articles on ROS1	**1.** In conclusion, our study revealed that celastrol caused G2/M phase arrest and trigged apoptosis and autophagy by activating ROS/JNK signaling and blocking the Akt/mTOR signaling pathway

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