

## ROS1 (ABT203R) rabbit mAb

<b>Catalog No :</b>	YM7210
<b>Reactivity :</b>	Human;
<b>Applications :</b>	WB; IHC; ELISA
<b>Target :</b>	ROS1
<b>Gene Name :</b>	ROS1 MCF3 ROS
<b>Protein Name :</b>	ROS1 (Tyr2274)
<b>Human Gene Id :</b>	6098
<b>Human Swiss Prot No :</b>	P08922
<b>Mouse Gene Id :</b>	19886
<b>Mouse Swiss Prot No :</b>	Q78DX7
<b>Rat Gene Id :</b>	25346
<b>Rat Swiss Prot No :</b>	Q63132
<b>Immunogen :</b>	Synthesized phosho peptide around human ROS1. AA range:1400-1600
<b>Specificity :</b>	This antibody detects endogenous levels of ROS1
<b>Formulation :</b>	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
<b>Source :</b>	Monoclonal, Rabbit IgG1, Kappa
<b>Dilution :</b>	IHC 1:100-500, WB 1:500-1000, ELISA 1:5000-20000
<b>Purification :</b>	Recombinant Expression and Affinity purified
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)

**Molecularweight :** 264kD

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**Background :** 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],

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**Function :** catalytic activity:ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate.,disease:A chromosomal aberration involving ROS1 is found in glioblastoma multiform (GBM). An homozygous deletion in chromosome 6q21 results in expression of a GOPC-ROS1 chimeric protein which has a constitutive receptor tyrosine kinase activity.,function:This is probably a cell growth or differentiation factor receptor with a tyrosine-protein kinase activity.,similarity:Belongs to the protein kinase superfamily. Tyr protein kinase family. Insulin receptor subfamily.,similarity:Contains 1 protein kinase domain.,similarity:Contains 9 fibronectin type-III domains.,

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**Subcellular Location :** Cell membrane ; Single-pass type I membrane protein .

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**Expression :** Expressed in brain. Expression is increased in primary gliomas.

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