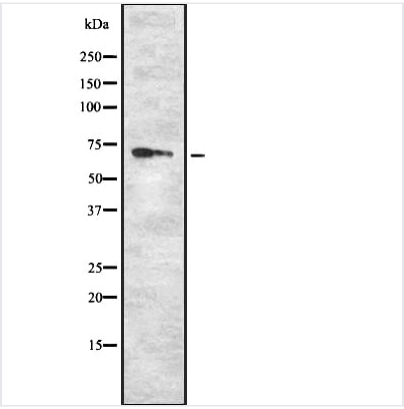
RYK Antibody

PRODUCT OVERVIEW

Product Name	RYK, Antibody
Full Product Name	RYK Antibody
Product Gene Name	anti-RYK antibody
Molecular Weight	68,072 Da
OMIM	600524
3D Structure	ModBase 3D Structure for P34925
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for anti-RYK antibody	MBS8517558 is an antibody targeting RYK. Also known as RYK Antibody.
Other Notes	Small volumes of anti-RYK 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.



Western Blot (WB) of anti-RYK antibody
Western blot analysis RYK using K562 whole cell lysates

ADDITIONAL DETAILS

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

NCBI GI #	54607020
NCBI GeneID	6259
NCBI Accession #	NP_001005861.1
UniProt Primary Accession #	P34925
UniProt Secondary Accession #	Q04696; A0A087WUK1; A0A096LNL3
UniProt Related Accession #	P34925
GenBank Nucleotide #	NM_001005861.2
NCBI Official Full Name	tyrosine-protein kinase RYK isoform 1

NCBI Official Synonym Full Names	receptor-like tyrosine kinase
NCBI Official Symbol	RYK
NCBI Official Synonym Symbols	JTK5; RYK1; JTK5A; D3S3195
UniProt Protein Name	Tyrosine-protein kinase RYK
Protein Family	Tyrosine-protein kinase
UniProt Gene Name	RYK
NCBI Protein Information	tyrosine-protein kinase RYK
NCBI Summary for RYK	The protein encoded by this gene is an atypical member of the family of growth factor receptor protein tyrosine kinases, differing from other members at a number of conserved residues in the activation and nucleotide binding domains. This gene product belongs to a subfamily whose members do not appear to be regulated by phosphorylation in the activation segment. It has been suggested that mediation of biological activity by recruitment of a signaling-competent auxiliary protein may occur through an as yet uncharacterized mechanism. The encoded protein has a leucine-rich extracellular domain with a WIF-type Wnt binding region, a single transmembrane domain, and an intracellular tyrosine kinase domain. This protein is involved in stimulating Wnt signaling pathways such as the regulation of axon pathfinding. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Feb 2012]
UniProt Comments for RYK	May be a coreceptor along with FZD8 of Wnt proteins, such as WNT1, WNT3, WNT3A and WNT5A. Involved in neuron differentiation, axon guidance, corpus callosum establishment and neurite outgrowth. In response to WNT3 stimulation, receptor C-terminal cleavage occurs in its transmembrane region and allows the C-terminal intracellular product to translocate from the cytoplasm to the nucleus where it plays a crucial role in neuronal development.
Research Articles on RYK	**1.** our findings demonstrate that Ryk promotes stem cell-like and tumorigenic features to glioma cells its essential for the maintenance of glioblastoma stem cells
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