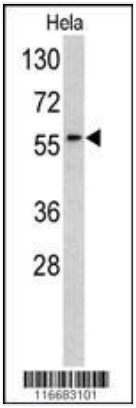
RYK Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	RYK, Polyclonal Antibody
Full Product Name	RYK, ID (C397) (Tyrosine-protein Kinase RYK, JTK5A) (MaxLight 650)
Product Gene Name	anti-RYK antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human RYK.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	~66 kDa
Chromosome Location	Chromosome: 3; NC_000003.11 (133875978..133969586, complement). Location: 3q22
OMIM	600524
3D Structure	ModBase 3D Structure for P34925
Immunogen	Synthetic peptide selected from the center region of human RYK (KLH).
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-RYK antibody	Antibodies; Tyrosine Kinases
Applications Tested/Suitable for anti-RYK antibody	Western Blot (WB), FLISA
Application Notes for anti-RYK antibody	WB: 1:50-1:100 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-RYK antibody	MBS6498366 is an antibody targeting RYK. Also known as RYK, ID (C397) (Tyrosine-protein Kinase RYK, JTK5A) (MaxLight 650). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-RYK antibody	1. Trivier, E., et al., J. Biol. Chem. 277(25):23037-23043 (2002). 2. Katso, R.M., et al., Mol. Cell. Biol. 19(9):6427-6440 (1999). 3. Wang, X.C., et al., Mol. Med. 2(2):189-203 (1996). 4. Tamagnone, L., et al., Oncogene 8(7):2009-2014 (1993). 5. Stacker, S.A., et al., Oncogene 8(5):1347-1356 (1993).
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 of RYK antibody (Center C397) in Hela cell line lysates (35ug/lane).
RYK (arrow) was detected using the purified Pab.

ADDITIONAL DETAILS

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

NCBI GI #	116805325
NCBI GeneID	6259
NCBI Accession #	NP_001005861.1
UniProt Primary Accession #	P34925
UniProt Secondary Accession #	Q04696
UniProt Related Accession #	P34925
GenBank Nucleotide #	NM_001005861
NCBI Official Full Name	Homo sapiens receptor-like tyrosine kinase (RYK), transcript variant 1, mRNA
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
UniProt Synonym Gene Names	JTK5A
UniProt Entry Name	RYK_HUMAN
NCBI Protein Information	tyrosine-protein kinase RYK; hydroxyaryl-protein kinase; JTK5A protein tyrosine kinase
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	Function: 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. Ref.5 Catalytic activity: ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate. Subunit structure: Interacts with DVL1 (via PDZ domain). Ref.5 Subcellular location: Membrane; Single-pass type I membrane protein By similarity. Nucleus By similarity. Cytoplasm By similarity. Note: In cells that have undergone neuronal differentiation, the C-terminal cleaved part is translocated from the cytoplasm to the nucleus By similarity. Tissue specificity: Observed in all the tissues examined. Domain: The extracellular WIF domain is responsible for Wnt binding By similarity. Post-translational modification: Proteolytically cleaved, in part by presenilin, in response to WNT3 stimulation. Cleavage occurs during neuronal differentiation. Ref.6 Sequence similarities: Belongs to the protein kinase superfamily. Tyr protein kinase family.Contains 1 protein kinase domain.Contains 1 WIF domain. Caution: According to some authors, has impaired kinase activity (Ref.4).
Research Articles on RYK	**1.** RYK and VANGL2 proteins form a complex, whereas RYK also activated RhoA, a downstream effector of PCP signaling.
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