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RYK Antibody (Center C397) Blocking Peptide

Synthetic peptide
Catalog # BP7677c

Specification

RYK Antibody (Center C397) Blocking Peptide - Product Information

Primary Accession P34925

RYK Antibody (Center C397) Blocking Peptide - Additional Information

Gene ID 6259

Other Names
Tyrosine-protein kinase RYK, RYK, JTK5A

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP7677c was selected from the Center region of human RYK. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

RYK Antibody (Center C397) Blocking Peptide - Protein Information

Name RYK (HGNC:10481)

Synonyms JTK5A

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.

Cellular Location
Membrane; Single-pass type I membrane protein. Nucleus. Cytoplasm. Note=In cells that have undergone neuronal differentiation, the C-terminal cleaved part is translocated from the cytoplasm to the nucleus.

Tissue Location
Observed in all the tissues examined.

RYK Antibody (Center C397) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

RYK Antibody (Center C397) Blocking Peptide - Images

RYK Antibody (Center C397) Blocking Peptide - Background

RYK 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. A nine nucleotide insertion in some transcripts results in the SLG variant. It is not established whether this is a product of alternative splicing or a second gene, since evidence for a second gene or pseudogene on chromosome 17 exists.

RYK Antibody (Center C397) Blocking Peptide - References

Trivier, E., et al., J. Biol. Chem. 277(25):23037-23043 (2002).Katso, R.M., et al., Mol. Cell. Biol. 19(9):6427-6440 (1999).Wang, X.C., et al., Mol. Med. 2(2):189-203 (1996).Tamagnone, L., et al., Oncogene 8(7):2009-2014 (1993).Stacker, S.A., et al., Oncogene 8(5):1347-1356 (1993).