

RYK Antibody
Mouse Monoclonal Antibody (Mab)
Catalog # AM1912b

Specification

RYK Antibody - Product Information

Application	WB,E
Primary Accession	P34925
Other Accession	NP_001005861.1 , NP_002949.2
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2b,k
Calculated MW	67815

RYK Antibody - Additional Information

Gene ID 6259

Other Names

Tyrosine-protein kinase RYK, RYK, JTK5A

Target/Specificity

This RYK monoclonal antibody is generated from mouse immunized with RYK recombinant protein.

Dilution

WB~~1:500~1000

Format

Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

RYK Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

RYK Antibody - 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

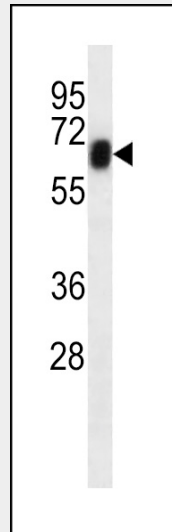
Observed in all the tissues examined.

RYK Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

RYK Antibody - Images



RYK (Cat. #AM1912b) western blot analysis in U251 cell line lysates (35µg/lane). This demonstrates the RYK antibody detected the RYK protein (arrow).

RYK Antibody - Background

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. Two alternative splice variants have been identified, encoding distinct isoforms.

RYK Antibody - References

Carter, T.C., et al. Birth Defects Res. Part A Clin. Mol. Teratol. 88(2):84-93(2010)
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Jugessur, A., et al. PLoS ONE 5 (7), E11493 (2010) :
Szafranski, K., et al. Genome Biol. 8 (8), R154 (2007) :
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