

RYK Antibody

Mouse Monoclonal Antibody (Mab) Catalog # AM1912b

Product Information

Application WB, E Primary Accession P34925

Other Accession NP_001005861.1, NP_002949.2

Reactivity
Host
Mouse
Clonality
Monoclonal
Isotype
IgG2b,k
Clone Names
240CT2.2.4
Calculated MW
67815

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 E~~Use at an assay dependent concentration.

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.

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.

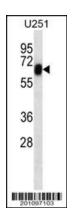
Background

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.

References

Carter, T.C., et al. Birth Defects Res. Part A Clin. Mol. Teratol. 88(2):84-93(2010) Couch, F.J., et al. Cancer Epidemiol. Biomarkers Prev. 19(1):251-257(2010) Jugessur, A., et al. PLoS ONE 5 (7), E11493 (2010): Szafranski, K., et al. Genome Biol. 8 (8), R154 (2007): Watanabe, A., et al. Cleft Palate Craniofac. J. 43(3):310-316(2006)

Images



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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.