

**RYK Antibody**  
**Mouse Monoclonal Antibody (Mab)**  
**Catalog # AM1912b**

**Specification**

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**RYK Antibody - Product Information**

Application	WB,E
Primary Accession	<a href="#">P34925</a>
Other Accession	<a href="#">NP_001005861.1</a> , <a href="#">NP_002949.2</a>
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

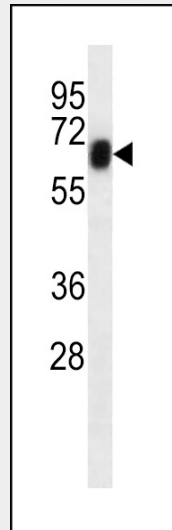
Observed in all the tissues examined.

### **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.

#### **RYP Antibody - 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)