

**RYP Antibody**  
**Purified Mouse Monoclonal Antibody (Mab)**  
**Catalog # AM8543b**

**Specification**

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**RYP Antibody - Product Information**

Application	<b>WB, FC,E</b>
Primary Accession	<a href="#">P34925</a>
Reactivity	<b>Human</b>
Host	<b>Mouse</b>
Clonality	<b>monoclonal</b>
Isotype	<b>IgG1,k</b>
Calculated MW	<b>67815</b>

**RYP Antibody - Additional Information**

**Gene ID** 6259

**Other Names**

Tyrosine-protein kinase RYK, 2.7.10.1, RYK, JTK5A

**Target/Specificity**

This RYK antibody is generated from a mouse immunized with a KLH conjugated synthetic peptide between 260-565 amino acids from human RYK.

**Dilution**

WB~~1:1000

FC~~1:25

**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.

**RYP 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

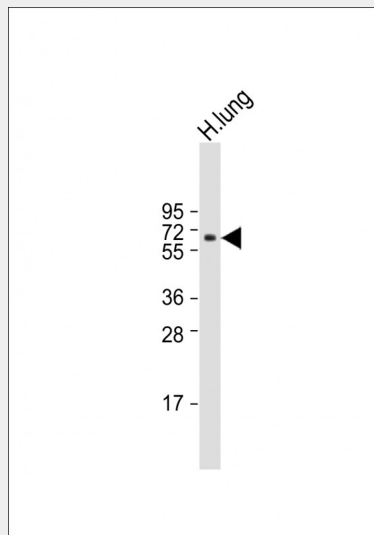
Observed in all the tissues examined.

### RYK Antibody - Protocols

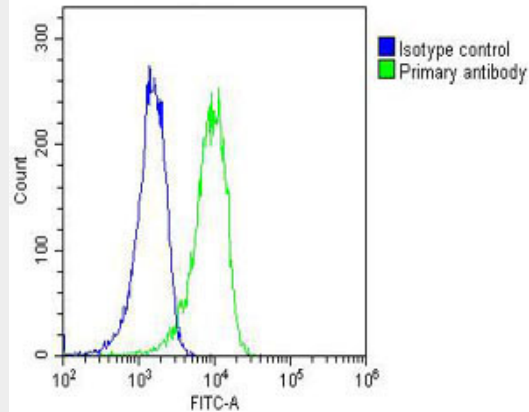
Provided below are standard protocols that you may find useful for product applications.

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

### RYK Antibody - Images



Anti-RYK Antibody at 1:1000 dilution + human lung lysate Lysates/proteins at 20  $\mu$ g per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 68 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Overlay histogram showing A431 cells stained with AM8543b(green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then incubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AM8543b, 1:25 dilution) for 60 min at 37°C. The secondary antibody used was Goat-Anti-Mouse IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed(OJ192088) at 1/200 dilution for 40 min at 37°C. Isotype control antibody (blue line) was mouse IgG1 (1µg/1x10<sup>6</sup> cells) used under the same conditions. Acquisition of >10, 000 events was performed.

#### **RYK Antibody - Background**

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.

#### **RYK Antibody - References**

- Stacker S.A.,et al.Oncogene 8:1347-1356(1993).
- Tamagnone L.,et al.Oncogene 8:2009-2014(1993).
- Wang X.C.,et al.Mol. Med. 2:189-203(1996).
- Katso R.M.,et al.Mol. Cell. Biol. 19:6427-6440(1999).
- Lu W.,et al.Cell 119:97-108(2004).