

**Ryk (mouse) Antibody (internal region)**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF3775a****Specification**

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**Ryk (mouse) Antibody (internal region) - Product Information**

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|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Application       | E                                                                                                                                                  |
| Primary Accession | <a href="#">P34925</a>                                                                                                                             |
| Other Accession   | <a href="#">NP_038677.3</a> , <a href="#">NP_001036072.1</a> , <a href="#">6259</a> , <a href="#">20187 (mouse)</a> , <a href="#">140585 (rat)</a> |
| Predicted Host    | Human, Mouse, Rat, Pig, Dog, Cow                                                                                                                   |
| Clonality         | Goat                                                                                                                                               |
| Concentration     | Polyclonal                                                                                                                                         |
| Isotype           | 0.5 mg/ml                                                                                                                                          |
| Calculated MW     | IgG                                                                                                                                                |
|                   | 67815                                                                                                                                              |

**Ryk (mouse) Antibody (internal region) - Additional Information****Gene ID** 6259**Other Names**

Tyrosine-protein kinase RYK, 2.7.10.1, RYK, JTK5A

**Format**

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Ryk (mouse) Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

**Ryk (mouse) Antibody (internal region) - 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 (mouse) Antibody (internal region) - 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 (mouse) Antibody (internal region) - Images****Ryk (mouse) Antibody (internal region) - Background**

This antibody is expected to recognize both reported isoforms (NP\_038677.3; NP\_001036072.1).

**Ryk (mouse) Antibody (internal region) - References**

Mindbomb 1, an E3 ubiquitin ligase, forms a complex with RYK to activate Wnt/ $\beta$ -catenin signaling. Berndt JD, Aoyagi A, Yang P, Anastas JN, Tang L, Moon RT. J Cell Biol. 2011 Sep 5;194(5):737-50. PMID: 21875946