

## Rabbit RYK Polyclonal Antibody | anti-RYK antibody

RYK Antibody

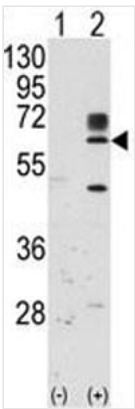
| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                              |
|-----------|--------|-------------------|-------------------------------------------|
| AAA28767  | Rabbit | Human, mouse, rat | Western Blot, ELISA, Immunohistochemistry |

### PRODUCT SYNONYMS

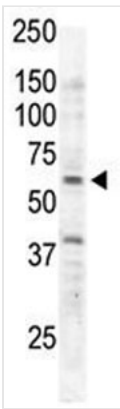
RYK; Polyclonal Antibody; RYK Antibody; Tyrosine-protein kinase RYK; JTK5A; anti-RYK antibody

### PRODUCT SPECIFICATIONS

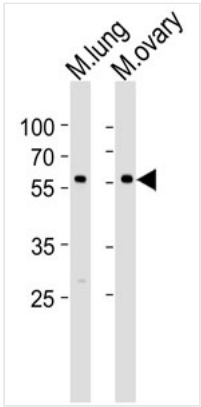
|                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                          | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Reactivity                                    | Human, mouse, rat                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Clonality                                     | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Isotype                                       | Rabbit Ig                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Specificity                                   | This RYK antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 160-190 amino acids from human RYK.                                                                                                                                                                                                                                                                                                                 |
| Purity/Purification                           | Purified Rabbit Polyclonal Antibody (Pab)                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Form/Format                                   | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.                                                                                                                                                                                                                                                                              |
| Sequence Positions                            | 160-190                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Sequence Length                               | 610                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Applicable Applications for anti-RYK antibody | WB (Western Blot), ELISA, IHC (Immunohistochemistry)                                                                                                                                                                                                                                                                                                                                                                                                      |
| Application Notes                             | WB~~1:1000<br>IHC-P~~1:50~100                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 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 Cterminal 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.                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Preparation and Storage                       | Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.                                                                                                                                                                                                                                                                                                     |



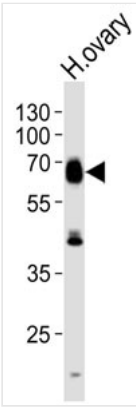
**WB (Western Blot)**  
Western blot analysis of RYK (arrow) using rabbit polyclonal RYK Antibody. 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the RYK gene (Lane 2) (Origene Technologies).



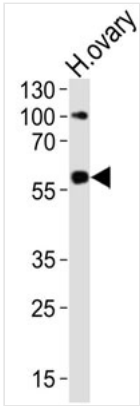
**WB (Western Blot)**  
The anti-RYK Pab is used in Western blot to detect RYK in Jurkat cell lysate.



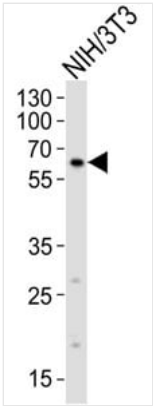
**WB (Western Blot)**  
Western blot analysis of lysates from mouse lung and ovary tissue lysate(from left to right), using RYK Antibody (N175). AAA28767 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35ug per lane.



**WB (Western Blot)**  
Western blot analysis of lysate from human ovary tissue lysate, using RYK Antibody (N175). AAA28767 was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysate at 20ug.



**WB (Western Blot)**  
Western blot analysis of lysate from human ovary tissue lysate, using RYK Antibody (N175). AAA28767 was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysate at 20ug.



**WB (Western Blot)**  
Western blot analysis of lysate from mouse NIH/3T3 cell line, using RYK Antibody (N175). AAA28767 was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysate at 20ug.

ADDITIONAL INFORMATION

|                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-RYK antibody | RYK 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. A nine nucleotide insertion in some transcripts results in the SLG variant. It is not established whether this is a product of alternative splicing or a second gene, since evidence for a second gene or pseudogene on chromosome 17 exists. |
| Product Categories/Family for anti-RYK antibody   | Signal Transduction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| References                                        | Trivier, E., et al., J. Biol. Chem. 277(25):23037-23043 (2002). Katso, R.M., et al., Mol. Cell. Biol. 19(9):6427-6440 (1999). Wang, X.C., et al., Mol. Med. 2(2):189-203 (1996). Tamagnone, L., et al., Oncogene 8(7):2009-2014 (1993). Stacker, S.A., et al., Oncogene 8(5):1347-1356 (1993).                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

NCBI AND UNIPROT INFORMATION

|                                  |                                       |
|----------------------------------|---------------------------------------|
| NCBI GI #                        | 54607020                              |
| NCBI GeneID                      | 6259                                  |
| NCBI Accession #                 | NP_001005861.1; NP_002949.2           |
| NCBI GenBank Nucleotide #        | NM_001005861.2                        |
| UniProt Accession #              | P34925; Q04696                        |
| NCBI Official Full Name          | tyrosine-protein kinase RYK isoform 1 |
| NCBI Official Synonym Full Names | receptor-like tyrosine kinase         |
| NCBI Official Symbol             | RYK                                   |
| NCBI Official Synonym Symbols    | JTK5; RYK1; JTK5A; D3S3195            |
| NCBI Protein Information         | tyrosine-protein kinase RYK           |
| UniProt Protein Name             | Tyrosine-protein kinase RYK           |
| UniProt Gene Name                | RYK                                   |
| UniProt Synonym Gene Names       | JTK5A                                 |
| UniProt Entry Name               | RYK_HUMAN                             |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/ryk-antibody-western-blot-immunohistochemistry-elisa/28767>