



Biotinylated Anti-mouse Ryk Antibody

ORDERING INFORMATION

Catalog Number: BAF4649

Lot Number: CASS01

Size: 50 µg

Formulation: 0.2 µm filtered solution in PBS with BSA

Storage: -20° C

Reconstitution: sterile 0.1% BSA in TBS

Specificity: mouse and human Ryk

Immunogen: NS0-derived rmRyk extracellular domain

Ig Type: sheep IgG

Application: Western blot

Background

Ryk (related to tyrosine (Y) kinase; also VIK and MRK) is a member of the tyrosine protein kinase family. It is a type I transmembrane glycoprotein that binds Wnt and forms a Wnt receptor complex with frizzled. In this capacity, it serves as a link between Wnt and Dishevelled. Mouse Ryk is 594 amino acids (aa) in length. It contains a 177 aa extracellular region (aa 35 - 211) that shows one WIF-1-like domain (aa 51 - 180), and a cytoplasmic region that possesses a nonfunctional Ser/Thr protein kinase domain (aa 318 - 581). There is one alternate start site at Met117. Over aa 35 - 211, mouse Ryk is 94% aa identical to human Ryk, and shows absolute (100%) aa identity to rat Ryk.

Preparation

Produced in sheep immunized with purified, NS0-derived, recombinant mouse Ryk extracellular domain (rmRyk; aa 35 - 211; Accession # Q01887). Mouse Ryk specific IgG was purified by mouse Ryk affinity chromatography and then biotinylated.

Formulation

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) containing 50 µg of bovine serum albumin (BSA) per 1 µg of antibody.

Reconstitution

Reconstitute with sterile Tris-buffered saline pH 7.3 (20 mM Trizma base, 150 mM NaCl) containing 0.1% BSA. If 1 mL of buffer is used, the antibody concentration will be 50 µg/mL.

Storage

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C **in a manual defrost freezer** for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

Specificity

This antibody has been selected for use as a detection antibody in mouse and human Ryk Western blots.

Application

Western blot - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect mouse and human Ryk. The detection limit for Ryk is approximately 10 ng/lane under non-reducing and reducing conditions.

Optimal dilutions should be determined by each laboratory for each application.