



ORDERING INFORMATION

Catalog Number: BAF4907

Lot Number: CBEA01

Size: 50 µg

Formulation: 0.2 µm filtered solution in PBS with BSA

Storage: -20° C

Reconstitution: sterile 0.1% BSA in TBS

Specificity: human Ryk

Immunogen: NS0-derived rhRyk (aa 47 - 224)

Ig Type: sheep IgG

Application: Western blot

Biotinylated Anti-human Ryk Antibody

Background

Ryk (related to tyrosine (Y) kinase; also H-Ryk) is a 110 kDa, atypical 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. Human Ryk is 604 amino acids (aa) in length. It contains a 25 aa signal sequence and a 199 aa extracellular region (aa 26 - 224) that shows one WIF-1-like domain (aa 63 - 191). The cytoplasmic region possesses a nonfunctional Ser/Thr protein kinase domain (aa 327 - 600). One isoform exists that shows a 31 aa substitution between aa 18 - 46. Over aa 47 - 224, human Ryk is 94% aa identical to mouse Ryk.

Preparation

Produced in sheep immunized with purified, NS0-derived, recombinant human Ryk (rhRyk; aa 47 - 224; Accession # NP_001005861). Human Ryk specific IgG was purified by human 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 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 human Ryk. The detection limit for rhRyk is approximately 2 ng/lane under non-reducing and reducing conditions. In this format, this antibody shows approximately 40% cross-reactivity with rmRyk.

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