

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Ryk in direct ELISAs and Western blots. In direct ELISAs and Western blots, approximately 40% cross-reactivity with recombinant mouse Ryk is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Ryk Ala47-Thr224 Accession # NP_001005861
Conjugate	Alexa Fluor 350 Excitation Wavelength: 346 nm Emission Wavelength: 442 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

CyTOF-ready	Optimal dilution of this antibody should be experimentally determined.
Western Blot	Optimal dilution of this antibody should be experimentally determined.
Flow Cytometry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

RYK (related to tyrosine (Y) kinase; also H-RYK) is a 70-90 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 (SwissProt Accession # P34925). 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's 18-46. Over aa 47-224, human RYK is 94% aa identical to mouse RYK.

PRODUCT SPECIFIC NOTICES

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