

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Ryk in ELISA.
Source	Monoclonal Mouse IgG _{2A} Clone # 484804
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Ryk Met1-Arg224 Accession # P34925
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

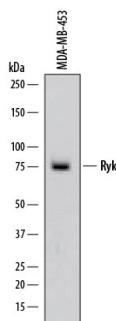
APPLICATIONS

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.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below

DATA

Western Blot



Detection of Human Ryk by Western Blot: Western blot shows lysates of MDA-MB-453 human breast cancer cell line. PVDF membrane was probed with 1 µg/mL of Mouse Anti-Human Ryk Antigen Affinity-purified Monoclonal Antibody (Catalog # MAB4907) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for Ryk at approximately 75 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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. 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.