

DESCRIPTION

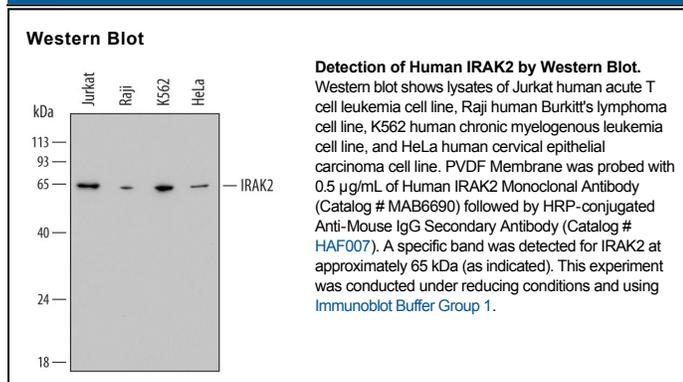
Species Reactivity	Human
Specificity	Detects human IRAK2 in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human (rh) IRAK1, 3, or 4 is observed. In Western blots, less than 25% cross-reactivity with rhIRAK1, 3, and 4 is observed.
Source	Monoclonal Mouse IgG ₃ Clone # 600848
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human IRAK2 Ala2-Asn590 Accession # O43187
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	0.5 µg/mL	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
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

IRAK2 is an approximately 75 kDa, 625 amino acid (aa) member of the IL-1 receptor-associated kinase (IRAK) family. The four IRAKs are ser/thr kinases that regulate signaling from Toll-like and IL-1 receptors. IRAKs contain N-terminal death domains and central kinase domains, but activity of the IRAK2 kinase domain is unknown. IRAK1 provides initial, and IRAK2 sustained, NFκB activation and proinflammatory cytokine production in macrophages, acting downstream of IRAK4. In the region used as an immunogen, human IRAK2 shares 69% and 70% amino acid identity with mouse and rat IRAK2, respectively.