

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
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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.

Western Blot 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

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.

PRODUCT SPECIFIC NOTICES

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