

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human IRAK4 in direct ELISAs.
Source	Monoclonal Rat IgG ₁ Clone # 413609
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human IRAK4 Met1-Ser460 Accession # Q9NWZ3
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 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.

Immunohistochemistry 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

IL-1 receptor-associated kinases (IRAKs) are serine/threonine kinases that help mediate signaling from Toll-like receptor (TLR) and IL-1 receptor family members. Four human IRAKs have been identified: IRAK1, IRAK2, IRAK-M, and IRAK4. Upon TLR ligand challenge, IRAK4 knockout mice exhibit severely impaired NF-κB activation. IRAK4 mutations have been described in patients with recurrent bacterial infections and poor inflammatory responses.

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