Human IRAK4
Alexa Fluor® 594-conjugated Antibody

Monoclonal Rat IgG_1 Clone # 413613

Catalog Number: IC39191T

100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human IRAK4 in direct ELISAs.
Source	Monoclonal Rat IgG_1 Clone # 413613
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human IRAK4 Met1-Ser460 Accession # Q9NWZ3
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and 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.*

	Recommended Concentration	Sample
Intracellular Staining by Flow Cytometry	0.25-1 µg/10^6 cells	K562 and Jurkat human cell line fixed with Flow Cytometry Fixation Buffer (Catalog # FC004) and permeabilized with Flow Cytometry Permeabilization/Wash Buffer I (Catalog # FC005)

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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