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# Datasheet for ABIN7127580 Recombinant anti-IRAK4 antibody

2 Images



## Overview

Quantity:	100 µL
Target:	IRAK4
Reactivity:	Human
Host:	Rabbit
Antibody Type:	Recombinant Antibody
Clonality:	Monoclonal
Conjugate:	This IRAK4 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS)

## Product Details

Immunogen:	A synthesized peptide derived from human IRAK4
Clone:	10H4
Isotype:	lgG
Cross-Reactivity:	Human
Purification:	Affinity-chromatography

## Target Details

Target:	IRAK4
Alternative Name:	IRAK4 (IRAK4 Products)
Background:	Background: Serine/threonine-protein kinase that plays a critical role in initiating innate immune

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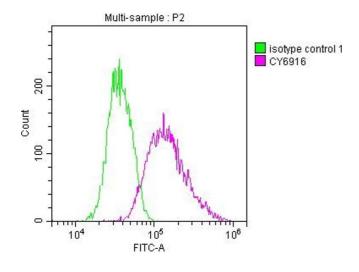
	response against foreign pathogens. Involved in Toll-like receptor (TLR) and IL-1R signaling
	pathways (PubMed:17878374). Is rapidly recruited by MYD88 to the receptor-signaling complex
	upon TLR activation to form the Myddosome together with IRAK2. Phosphorylates initially
	IRAK1, thus stimulating the kinase activity and intensive autophosphorylation of IRAK1.
	Phosphorylates E3 ubiquitin ligases Pellino proteins (PELI1, PELI2 and PELI3) to promote
	pellino-mediated polyubiquitination of IRAK1. Then, the ubiquitin-binding domain of
	IKBKG/NEMO binds to polyubiquitinated IRAK1 bringing together the IRAK1-MAP3K7/TAK1-
	TRAF6 complex and the NEMO-IKKA-IKKB complex. In turn, MAP3K7/TAK1 activates IKKs
	(CHUK/IKKA and IKBKB/IKKB) leading to NF-kappa-B nuclear translocation and activation.
	Alternatively, phosphorylates TIRAP to promote its ubiquitination and subsequent degradation.
	Phosphorylates NCF1 and regulates NADPH oxidase activation after LPS stimulation
	suggesting a similar mechanism during microbial infections.
	Aliases: Interleukin-1 receptor-associated kinase 4 (IRAK-4) (EC 2.7.11.1) (Renal carcinoma
	antigen NY-REN-64), IRAK4
UniProt:	Q9NWZ3
Pathways:	NF-kappaB Signaling, TLR Signaling, Activation of Innate immune Response, Toll-Like
	Receptors Cascades
Application Details	
Application Notes:	Recommended dilution: WB:1:500-1:5000, FC:1:20-1:200,
Restrictions:	For Research Use only

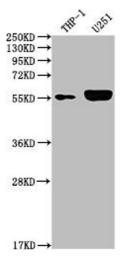
## Handling

Format:	Liquid
Buffer:	Rabbit IgG in phosphate buffered saline, pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

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#### Images





#### **Flow Cytometry**

**Image 1.** Overlay histogram showing Jurkat cells stained with ABIN7127580 (red line) at 1:50. The cells were fixed with 70 % Ethylalcohol (18h) and then incubated in 10 % normal goat serum to block non-specific protein-protein interactions followedby the antibody (1  $\mu$ g/1\*106cells) for 1 h at 4 °C.The secondary antibody used was FITC-conjugated goat anti-rabbit IgG (H+L) at 1/200 dilution for 30 min at 4 °C. Control antibody (green line) was Rabbit IgG (1  $\mu$ g/1\*106cells) used under the same conditions. Acquisition of >10,000 events was performed.

### Western Blotting

**Image 2.** Western Blot Positive WB detected in: THP-1 whole cell lysate, U251 whole cell lysate All lanes: IRAK4 antibody at 1:2000 Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution Predicted band size: 52, 38 kDa Observed band size: 55 kDa

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