

IRAK4 recombinant antibody

IRAK4 Antibody

CATALOG # AAA243894	HOST Rabbit	REACTIVITY Human	APPLICATIONS Flow Cytometry, Functional Assay, Western Blot, ELISA
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PRODUCT SYNONYMS

IRAK4; Monoclonal Recombinant Antibody; IRAK4 Antibody; Interleukin-1 receptor-associated kinase 4 (IRAK-4) (EC 2.7.11.1) (Renal carcinoma antigen NY-REN-64); IRAK4 recombinant antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Number	10H4
Purity/Purification	Affinity-chromatography
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, PH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Applicable Applications for IRAK4 recombinant antibody	FCM/FACS (Flow Cytometry), WB (Western Blot), ELISA
Antibody Type	Recombinant Antibody
Conjugation	Non-conjugated
Immunogen	A synthesized peptide derived from human IRAK4
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.

IMAGES



FCM/FACS (Flow Cytometry)

Overlay histogram showing Jurkat cells stained with (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 (1ug/1*106cells) for 1 h at 4?. The secondary antibody used was FITC-conjugated goat anti-rabbit IgG (H+L) at 1/200 dilution for 30min at 4?. Control antibody (green line) was Rabbit IgG (1ug/1*106cells) used under the same conditions. Acquisition of >10,000 events was performed.



WB (Western Blot)

Western BlotPositive WB detected in: THP-1 whole cell lysate, U251 whole cell lysateAll lanes: IRAK4 antibody at 1:2000SecondaryGoat polyclonal to rabbit IgG at 1/50000 dilutionPredicted band size: 52, 38 kDaObserved band size: 55 kDa

ADDITIONAL INFORMATION

Related Product Information for IRAK4 recombinant antibody	Serine/threonine-protein kinase that plays a critical role in initiating innate immune 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.
Product Categories/Family for IRAK4 recombinant antibody	Cardiovascular; Immunology; Signal transduction

NCBI AND UNIPROT INFORMATION

NCBI GI #	20219010
NCBI GeneID	51135
UniProt Accession #	Q9NWZ3; Q69FE1; Q8TDF7; Q9Y589
Molecular Weight	Predicted: 51 kDa Observed: 51 kDa
NCBI Official Full Name	interleukin-1 receptor associated kinase 4
NCBI Official Synonym Full Names	interleukin-1 receptor-associated kinase 4
NCBI Official Symbol	IRAK4
NCBI Official Synonym Symbols	IPD1; REN64; IRAK-4; NY-REN-64
NCBI Protein Information	interleukin-1 receptor-associated kinase 4; renal carcinoma antigen NY-REN-64
UniProt Protein Name	Interleukin-1 receptor-associated kinase 4
UniProt Gene Name	IRAK4
UniProt Synonym Gene Names	IRAK-4
UniProt Entry Name	IRAK4_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.