



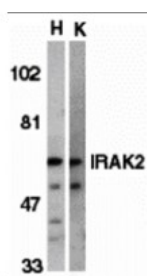
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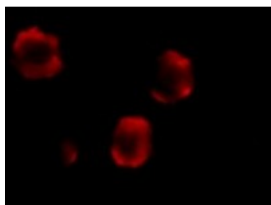
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IRAK-2 Antibody

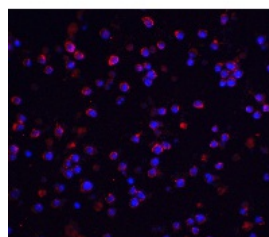
CATALOG NUMBER: 2123



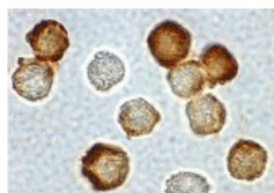
Western blot analysis of IRAK2 in HeLa (H) and K562 (K) whole cell lysate with IRAK2 antibody (C2) at 2 ug/mL.



Immunofluorescence of IRAK-2 in HeLa cells with IRAK-2 antibody at 10 ug/mL.



Immunofluorescence of IRAK-M in human spleen tissue with IRAK M antibody at 20 ug/mL.



Immunocytochemical staining of HeLa cells using IRAK2 antibody at 2 ug/mL.

Specifications

SPECIES REACTIVITY:	Human
HOMOLOGY:	Predicted species reactivity based on immunogen sequence: Mouse: (77%)
TESTED APPLICATIONS:	ELISA, ICC, IF, WB
APPLICATIONS:	IRAK-2 antibody can be used for detection of IRAK2 by Western blot at 2 ug/mL. A 65 kDa band should be detected. This polyclonal antibody can also detect IRAK2 by immunocytochemistry at 2 ug/mL. For immunofluorescence start at 10 ug/mL.
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
POSITIVE CONTROL:	1) Cat. No. 1201 - HeLa Cell Lysate 2) Cat. No. 1204 - K562 Cell Lysate 3) Cat. No. 17-001 - HeLa Cell Slide
PREDICTED MOLECULAR WEIGHT:	65 kDa
SPECIFICITY:	Anti-IRAK2 has no cross response to IRAK.
IMMUNOGEN:	IRAK2 antibody was raised against a peptide corresponding to amino acids near the carboxy terminus of human

IRAK2.

The immunogen is located within amino acids 530 - 580 of IRAK-2.

HOST SPECIES: Rabbit

Properties

PURIFICATION: IRAK-2 Antibody is affinity chromatography purified via peptide column.

PHYSICAL STATE: Liquid

BUFFER: IRAK-2 Antibody is supplied in PBS containing 0.02% sodium azide.

STORAGE CONDITIONS: IRAK-2 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

CLONALITY: Polyclonal

ISOTYPE: IgG

CONJUGATE: Unconjugated

Additional Info

ALTERNATE NAMES: IRAK-2 Antibody: IRAK-2, Interleukin-1 receptor-associated kinase-like 2, IRAK-2

ACCESSION NO.: AF026273

PROTEIN GI NO.: 2653876

OFFICIAL SYMBOL: IRAK2

GENE ID: 3656

Background

BACKGROUND: IRAK-2 Antibody: The pro-inflammatory cytokine IL-1 induces cellular response through two subunits of its receptor, IL-1 receptor I (IL-1RI) and IL-1 receptor accessory protein (IL-1RAcP). IL-1 receptor-associated kinase (IRAK) mediates activation of NF- κ B, which is a pivotal transcription factor mediating inflammatory and immune response. A novel member in the IRAK/Pelle family was recently identified and designated IRAK2. Both IRAK and IRAK2 recruit to the subunits of the IL-1R complex after IL-1 binding and lead to NF- κ B activation. IRAKs also associate with Toll like receptor (TLR) and the dominant negative mutants of IRAKs inhibit LPS-induced NF- κ B activation. Members in IRAK/Pelle family play a central role in IL-1R and TLR mediated inflammatory response. IRAK2 is expressed in a variety of human tissues.

REFERENCES: 1) Muzio M, Ni J, Feng P, Dixit VM. IRAK (Pelle) family member IRAK-2 and MyD88 as proximal mediators of IL-1 signaling. *Science* 1997;278:1612-5.

2) Zhang FX, Kirschning CJ, Mancinelli R, Xu XP, Jin Y, Faure E, Mantovani A, Rothe M, Muzio M, Arditi M. Bacterial lipopolysaccharide activates nuclear factor- κ B through interleukin-1 signaling mediators in cultured human dermal endothelial cells and mononuclear phagocytes. *J Biol Chem* 1999;274:7611-4.

3) Yang RB, Mark MR, Gurney AL, Godowski PJ. Signaling events induced by lipopolysaccharide-activated toll-like receptor 2. *J Immunol* 1999;163:639-43. (RD1299)

FOR RESEARCH USE ONLY

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