



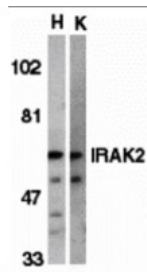
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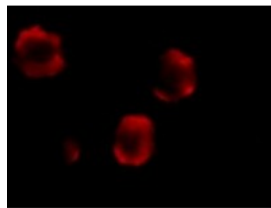
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IRAK-2 Antibody

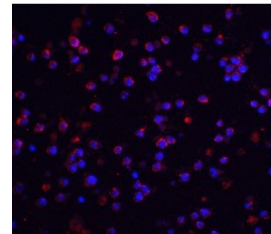
CATALOG NUMBER: 2123



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

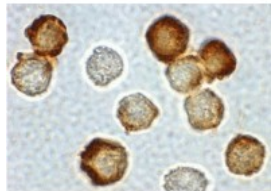


Immunofluorescence of IRAK-2 in HeLa cells with IRAK-2 antibody at 10 ug/mL.



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

Green: IRAK-2 Antibody (2123)
Blue: DAPI staining



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.

Antibody validated: Western Blot in human samples; Immunocytochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested.

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.
CONCENTRATION:	batch dependent
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

April 11, 2018