

Product datasheet

Anti-IRAK2 antibody ab6148

★★★★★ [1 Abreviews](#) [4 Images](#)

Overview

Product name	Anti-IRAK2 antibody
Description	Rabbit polyclonal to IRAK2
Host species	Rabbit
Specificity	Anti-IRAK2 has no cross response to IRAK.
Tested applications	Suitable for: ICC/IF, WB
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide, corresponding to amino acids 546-564 of Human IRAK2.
General notes	

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 (1). 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 (2,3). 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.

The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2

Preservative: 0.02% Sodium azide

Purity	Affinity purified
Purification notes	Purified IgG was prepared by affinity chromatography.
Primary antibody notes	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 (1). 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 (2,3). 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.
Clonality	Polyclonal
Isotype	IgG

Applications

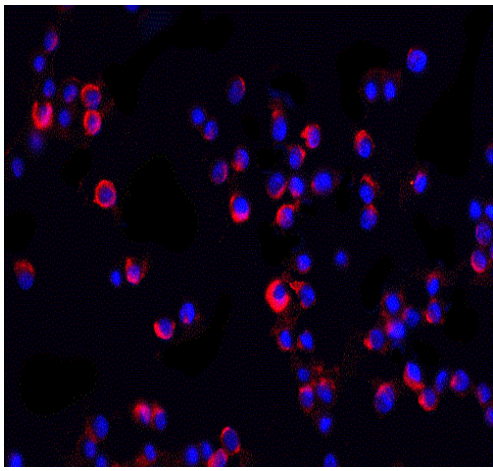
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab6148 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		Use a concentration of 2 μ g/ml.
WB		1/500 - 1/1000. Predicted molecular weight: 65 kDa.

Target

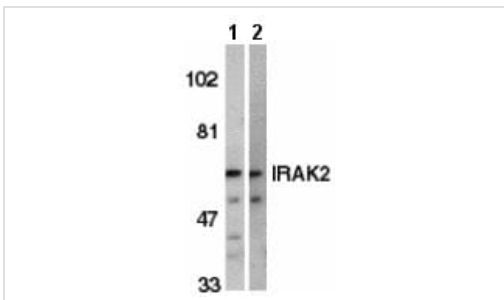
Function	Binds to the IL-1 type I receptor following IL-1 engagement, triggering intracellular signaling cascades leading to transcriptional up-regulation and mRNA stabilization.
Tissue specificity	Expressed in spleen, thymus, prostate, lung, liver, skeletal muscle, kidney, pancreas and peripheral blood leukocytes.
Sequence similarities	Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family. Pelle subfamily. Contains 1 death domain. Contains 1 protein kinase domain.
Domain	The protein kinase domain is predicted to be catalytically inactive.

Images



Immunocytochemistry/ Immunofluorescence - Anti-IRA2 antibody (ab6148)

Immunofluorescent analysis of HeLa cells staining IRAK2 with ab6148 at 20µg/ml



Western blot - Anti-IRA2 antibody (ab6148)

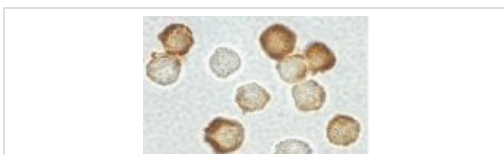
All lanes : Anti-IRA2 antibody (ab6148) at 2 µg/ml

Lane 1 : HeLa whole cell lysate

Lane 2 : K562 whole cell lysate

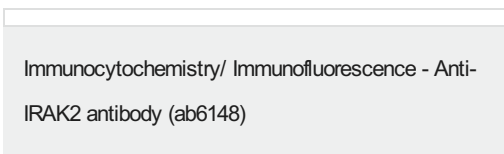
Predicted band size: 65 kDa

Observed band size: 65 kDa



Immunocytochemistry/ Immunofluorescence - Anti-IRA2 antibody (ab6148)

ab6148 at 2µg/ml staining IRAK2 in HeLa cells by ICC/IF



Immunocytochemistry/ Immunofluorescence - Anti-IRA2 antibody (ab6148)

Immunofluorescence of IRAK-2 in HeLa cells using ab6148 at 10 µg/ml.

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