

## Product datasheet

# Anti-IRAK2 antibody ab6148

★★★★★ 1 Abreviews 4 Images

### Overview

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<b>Product name</b>	Anti-IRAK2 antibody
<b>Description</b>	Rabbit polyclonal to IRAK2
<b>Host species</b>	Rabbit
<b>Specificity</b>	Anti-IRAK2 has no cross response to IRAK.
<b>Tested applications</b>	<b>Suitable for:</b> ICC/IF, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	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- $\kappa$ 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- $\kappa$ B activation. IRAKs also associate with Toll-like receptor (TLR) and the dominant negative mutants of IRAKs inhibit LPS-induced NF- $\kappa$ 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

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<b>Form</b>	Liquid
<b>Storage instructions</b>	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.
<b>Storage buffer</b>	pH: 7.2

	Preservative: 0.02% Sodium azide
<b>Purity</b>	Affinity purified
<b>Purification notes</b>	Purified IgG was prepared by affinity chromatography.
<b>Primary antibody notes</b>	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-κB, 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-κB activation. IRAKs also associate with Toll-like receptor (TLR) and the dominant negative mutants of IRAKs inhibit LPS-induced NF-κB 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.
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

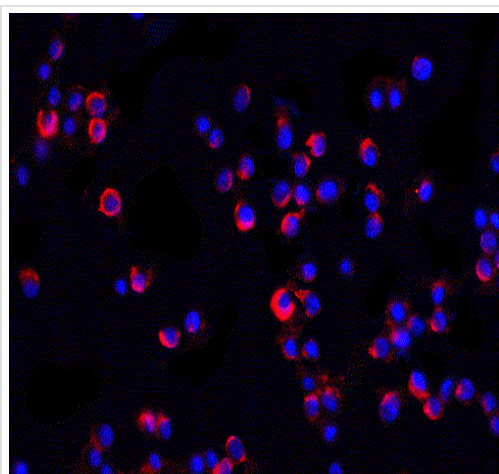
**The Abpromise guarantee** Our [Abpromise guarantee](#) covers the use of ab6148 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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

## Target

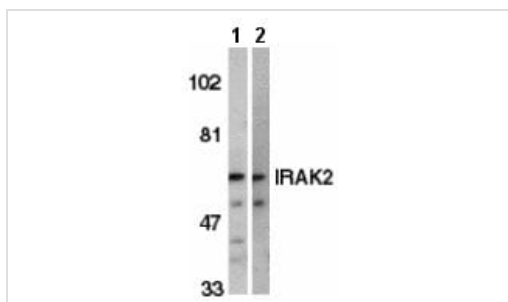
<b>Function</b>	Binds to the IL-1 type I receptor following IL-1 engagement, triggering intracellular signaling cascades leading to transcriptional up-regulation and mRNA stabilization.
<b>Tissue specificity</b>	Expressed in spleen, thymus, prostate, lung, liver, skeletal muscle, kidney, pancreas and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

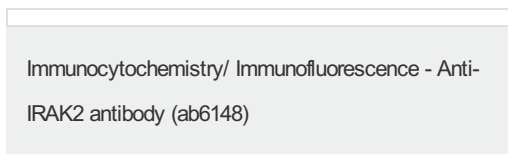
**Predicted band size:** 65 kDa

**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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