

## Product datasheet

### Anti-IRAK2 antibody ab6158

[3 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 crossresponse 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 571-590 of Human IRAK2.
<b>Positive control</b>	K562 whole cell lysate
<b>General notes</b>	

Nuclear factor kappa B (NF- $\kappa$ B) is a ubiquitous transcription factor and an essential mediator of gene expression during activation of immune and inflammatory responses. NF- $\kappa$ B mediates the expression of a great variety of genes in response to extracellular stimuli including IL-1, TNF $\alpha$ , and bacteria product LPS. NF- $\kappa$ B is associated with I $\kappa$ B proteins in the cell cytoplasm, which inhibit NF- $\kappa$ B activity. The long-sought I $\kappa$ B kinase (IKK), which phosphorylates I $\kappa$ B, and mediates I $\kappa$ B degradation and NF- $\kappa$ B activation, was recently identified by several laboratories (1-5). IKK is a serine protein kinase, and the IKK complex contains alpha and beta subunits (IKK $\alpha$  and IKK $\beta$ ). IKK $\alpha$  and IKK $\beta$  interact with each other and both are essential for NF- $\kappa$ B activation. IKK $\beta$  phosphorylates both I $\kappa$ B- $\alpha$  and I $\kappa$ B- $\beta$ . IKK $\beta$  is expressed in a variety of human tissues.

#### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
<b>Storage buffer</b>	Preservative: 0.02% Sodium azide
<b>Purity</b>	IgG fraction
<b>Purification notes</b>	Purified IgG prepared by ion exchange chromatography.
<b>Primary antibody notes</b>	Nuclear factor kappa B (NF- $\kappa$ B) is a ubiquitous transcription factor and an essential mediator of gene expression during activation of immune and inflammatory responses. NF- $\kappa$ B mediates the expression of a great variety of genes in response to extracellular stimuli including IL-1, TNF $\alpha$ , and bacteria product LPS. NF- $\kappa$ B is associated with I $\kappa$ B proteins in the cell cytoplasm, which inhibit

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**Clonality** Polyclonal

**Isotype** IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab6158 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 10 $\mu$ g/ml.
WB		1/500 - 1/1000. Detects a band of approximately 65 kDa.

## Target

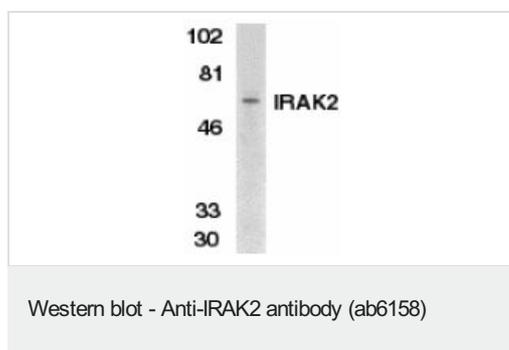
**Function** Binds to the IL-1 type I receptor following IL-1 engagement, triggering intracellular signaling cascades leading to transcriptional up-regulation and mRNA stabilization.

**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.

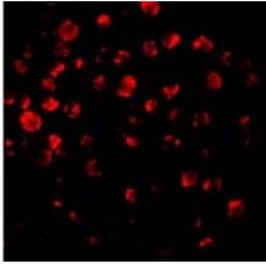
**Domain** The protein kinase domain is predicted to be catalytically inactive.

## Images



Anti-IRAK2 antibody (ab6158) at 1/500 dilution + K562 whole cell lysate

**Observed band size:** 65 kDa



ab6158 at 10µg/ml staining IRAK-2 in HeLa cells by ICC/IF

Immunocytochemistry/ Immunofluorescence - Anti-  
IRAK2 antibody (ab6158)

Immunocytochemistry/ Immunofluorescence - Anti-  
IRAK2 antibody (ab6158)

Immunofluorescence of IRAK-2 in HeLa cells using ab6158 at 20  
ug/ml.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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