

## Product datasheet

# Anti-IRAK4 antibody ab5985

★★★★★ 2 Abreviews 1 References 4 Images

### Overview

<b>Product name</b>	Anti-IRAK4 antibody
<b>Description</b>	Rabbit polyclonal to IRAK4
<b>Host species</b>	Rabbit
<b>Specificity</b>	This antibody is specific to IRAK4 and does not cross react with other IRAK proteins.
<b>Tested applications</b>	<b>Suitable for:</b> ICC, ICC/IF, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Sheep, Human
<b>Immunogen</b>	Synthetic peptide corresponding to amino acids at the carboxy terminus end of IRAK-4 (Human).
<b>Positive control</b>	HeLa whole cell lysate.
<b>General notes</b>	Stable for one year.

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C.
<b>Storage buffer</b>	Preservative: 0.02% Sodium azide Constituent: PBS
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

### Applications

Our [Abpromise guarantee](#) covers the use of **ab5985** 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	★★★★★	
ICC/IF		

Application	Abreviews	Notes
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WB



### Application notes

ICC/IF: Use at a concentration of 10 µg/ml.

WB: Use at a concentration of 1 - 2 µg/ml. Detects a band of approximately 50 kDa. Can be blocked with [IRAK4 peptide \(448-460\) \(ab39782\)](#).

Not yet tested in other applications.

Optimal dilutions/concentrations should be determined by the end user.

### Target

#### Function

Required for the efficient recruitment of IRAK1 to the IL-1 receptor complex following IL-1 engagement, triggering intracellular signaling cascades leading to transcriptional up-regulation and mRNA stabilization. Phosphorylates IRAK1.

#### Involvement in disease

Defects in IRAK4 are the cause of recurrent isolated invasive pneumococcal disease type 1 (IPD1) [MIM:610799]. Recurrent invasive pneumococcal disease (IPD) is defined as two episodes of IPD occurring at least 1 month apart, whether caused by the same or different serotypes or strains. Recurrent IPD occurs in at least 2% of patients in most series, making IPD the most important known risk factor for subsequent IPD.

Defects in IRAK4 are the cause of IRAK4 deficiency (IRAK4D) [MIM:607676]. IRAK4 deficiency causes extracellular pyogenic bacterial and fungal infections in otherwise healthy children.

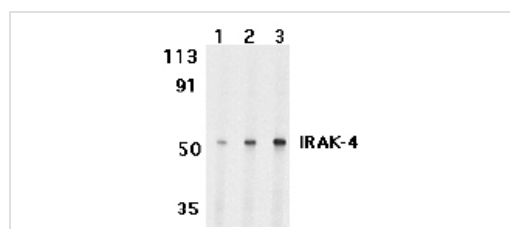
#### Sequence similarities

Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family. Pelle subfamily.

Contains 1 death domain.

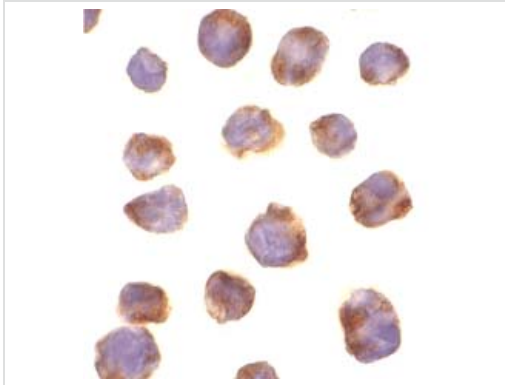
Contains 1 protein kinase domain.

### Images



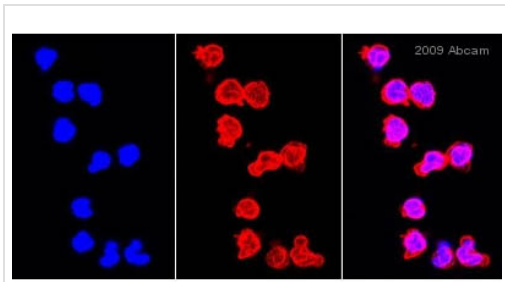
Western blot - Anti-IRAK4 antibody (ab5985)

Western blot analysis of IRAK4 in HeLa cell lysate with ab5985 at 1 (lane 1), 2 (lane 2), and 4 (lane 3) µg/ml, respectively. Western blot analysis of IRAK4 in HeLa cell lysate with ab5985 at 1 (lane 1), 2 (lane 2), and 4 (lane 3) µg/ml, respectively.



Immunocytochemistry/ Immunofluorescence - Anti-IRAK4 antibody (ab5985)

ab5985 at 10µg/ml staining IRAK-4 in K562 by ICC/IF



Immunocytochemistry/ Immunofluorescence - Anti-IRAK4 antibody (ab5985)

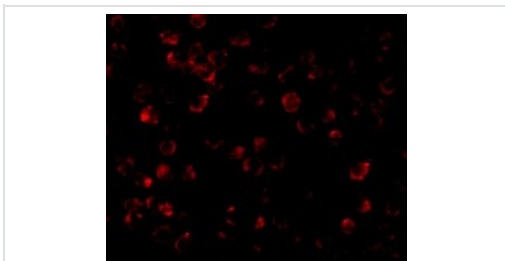
This image was kindly supplied by Dr Mahesh Shivananjappa by Abreview

ab5985 at a 1/100 dilution staining IRAK4 in human PMN cells by Immunocytochemistry/ Immunofluorescence incubated for 4 hours at 37°C. Fixed with PFA. Blocked using 2% BSA for 1 hour at 22°C. Secondary used at 1/250 polyclonal Goat anti-rabbit conjugated to Alexa Fluor 568.

Left image: DAPI staining nuclei (blue)

Middle image: IRAK4 (red)

Right image: Overlay



Immunocytochemistry/ Immunofluorescence - Anti-IRAK4 antibody (ab5985)

Immunofluorescence of IRAK-4 in K562 cells using ab5985 at 10 ug/ml.

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