

Product datasheet

Anti-IRAK4 antibody ab5985

★★★★★ [2 Abreviews](#) [4 References](#) [5 Images](#)

Overview

Product name	Anti-IRAK4 antibody
Description	Rabbit polyclonal to IRAK4
Host species	Rabbit
Specificity	This antibody is specific to IRAK4 and does not cross react with other IRAK proteins.
Tested applications	Suitable for: ICC/IF, WB
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide corresponding to Human IRAK4 (C terminal). (Peptide available as ab39782)
Positive control	WB: Daudi, HepG2 and HeLa whole cell lysate. ICC/IF: K562 cells
General notes	<p>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.</p> <p>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</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. The product can be stored for up to 12 months.
Storage buffer	pH: 7.2 Preservative: 0.02% Sodium azide Constituent: PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

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/IF		Use a concentration of 10 µg/ml.
WB	★★★★★ (1)	Use a concentration of 1 - 2 µg/ml. Detects a band of approximately 50 kDa.

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.

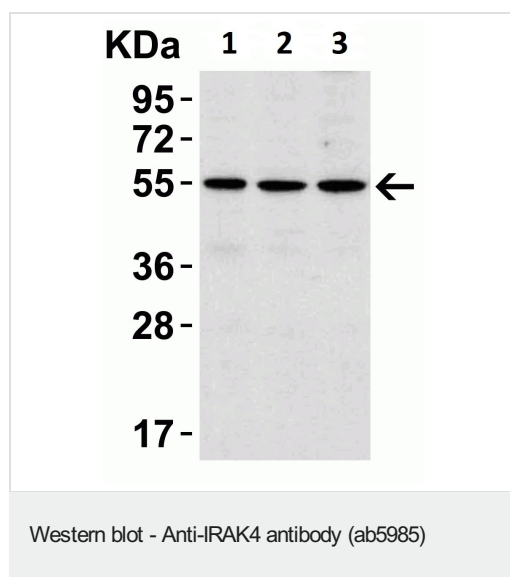
Defects in IRAK4 are the cause of IRAK4 deficiency (IRAK4D) [MIM:607676]. IRAK4 deficiency causes extracellular pyogenic bacterial and fungal infections in otherwise healthy children.

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



All lanes : Anti-IRAK4 antibody (ab5985) at 1 µg/ml

Lane 1 : Daudi cell lysate

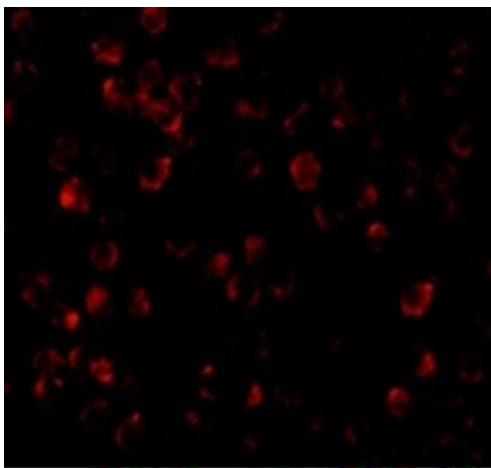
Lane 2 : HeLa cell lysate

Lane 3 : HepG2 cell lysate

Lysates/proteins at 15 µg per lane.

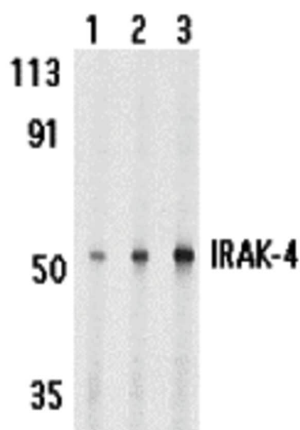
Secondary

All lanes : Goat anti-rabbit IgG HRP conjugate at 1/10000 dilution



Immunocytochemistry/ Immunofluorescence - Anti-IRAK4 antibody (ab5985)

Immunofluorescent analysis of 4% paraformaldehyde-fixed K562 Cells labeling IRAK4 with **ab9585** at 10 µg/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (red).



Western blot - Anti-IRAK4 antibody (ab5985)

Lane 1 : Anti-IRAK4 antibody (ab5985) at 1 µg/ml

Lane 2 : Anti-IRAK4 antibody (ab5985) at 2 µg/ml

Lane 3 : Anti-IRAK4 antibody (ab5985) at 4 µg/ml

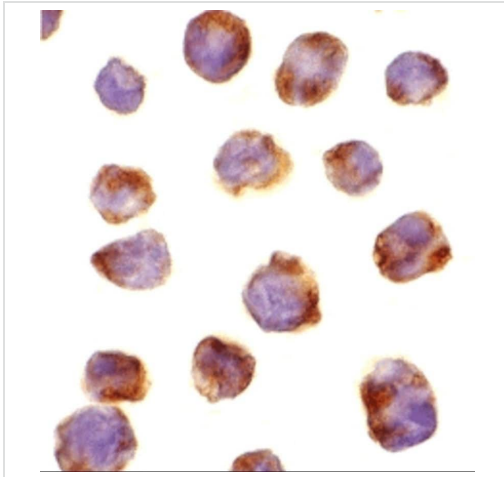
All lanes : HeLa cell lysates

Lysates/proteins at 15 µg per lane.

Secondary

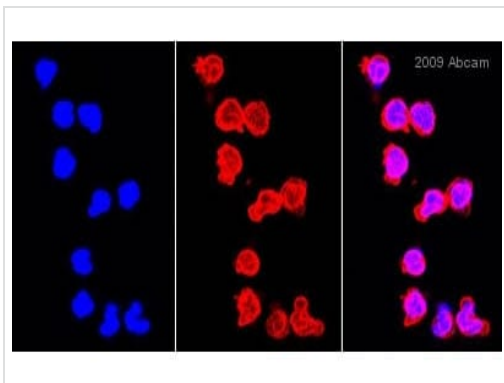
All lanes : Goat anti-rabbit IgG HRP conjugate at 1/10000 dilution

Primary incubation: 1 hour at room temperature in 5% NFDM/TBST.



Immunocytochemistry/ Immunofluorescence - Anti-IRAK4 antibody (ab5985)

Immunocytochemical analysis of K562 cells labeling IRAK4 with ab5985 at 10 µg/mL. Cells were fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4°C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.



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

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