

Product datasheet

Anti-IRAK4 antibody [Y279] ab32511

Recombinant RabMAb

[3 References](#) [5 Images](#)

Overview

Product name	Anti-IRAK4 antibody [Y279]
Description	Rabbit monoclonal [Y279] to IRAK4
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), WB, ICC/IF Unsuitable for: IHC-P
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide within Human IRAK4 aa 1-100 (N terminal). The exact sequence is proprietary.
Positive control	WB: K-562 lysates; ICC/IF: Jurkat cells; Flow Cyt (intra): Jurkat cells.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p>

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 long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal

Clone number Y279
Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab32511 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
Flow Cyt (Intra)		Use at an assay dependent concentration.
WB		1/1000 - 1/10000. Detects a band of approximately 52 kDa.
ICC/IF		1/500. For unpurified use at 1/50 to 1/100.

Application notes Is unsuitable for IHC-P.

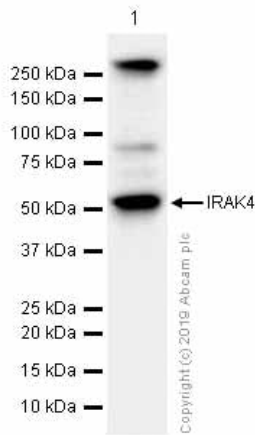
Target

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



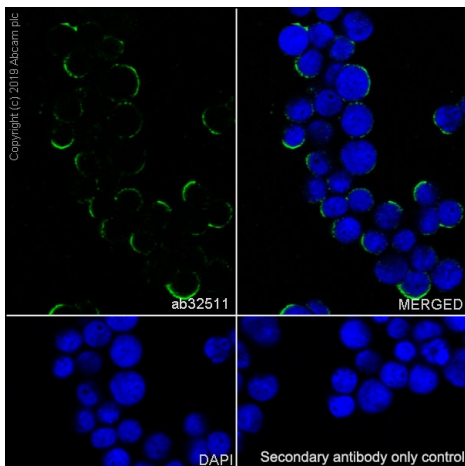
Western blot - Anti-IRAK4 antibody [Y279] (ab32511)

Anti-IRAK4 antibody [Y279] (ab32511) at 1/1000 dilution (Purified) + K-562 (Human chronic myelogenous leukemia lymphoblast) whole cell lysates at 15 µg

Secondary

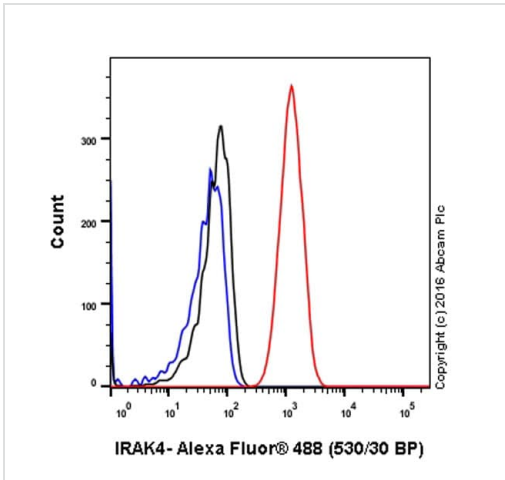
Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Observed band size: 52 kDa



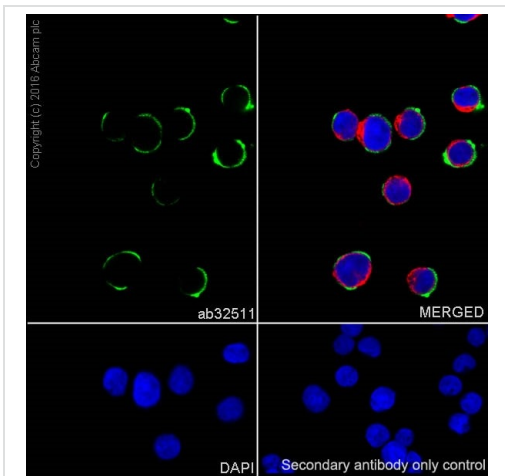
Immunocytochemistry/ Immunofluorescence - Anti-IRAK4 antibody [Y279] (ab32511)

Immunocytochemistry/ Immunofluorescence analysis of Jurkat (Human T cell leukemia T lymphocyte) cells labeling IRAK4 with purified ab32511 at 1:500 dilution (2.6 µg/ml). Cells were fixed in 100% Methanol and permeabilized with None. Cells were counterstained with none. Goat anti rabbit IgG (Alexa Fluor® 488, [ab150077](#)) was used as the secondary antibody at 1:1000 (2 µg/ml) dilution. DAPI (blue) was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



Flow Cytometry (Intracellular) - Anti-IRAK4 antibody [Y279] (ab32511)

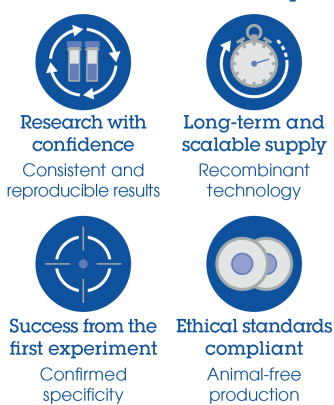
Intracellular Flow Cytometry analysis of Jurkat (human acute T cell leukemia) cells labeling IRAK4 with purified ab32511 at 1/110 dilution (10ug/ml) (red). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. A Goat anti rabbit IgG (Alexa Fluor® 488) (1/2000 dilution) was used as the secondary antibody. Rabbit monoclonal IgG (Black) was used as the isotype control, cells without incubation with primary antibody and secondary antibody (Blue) was used as the unlabeled control.



Immunocytochemistry/ Immunofluorescence - Anti-IRAK4 antibody [Y279] (ab32511)

Immunocytochemistry/Immunofluorescence analysis of Jurkat (Human T cell leukemia cell line from peripheral blood) cells labeling IRAK4 with ab32511 (unpurified) at 1/100 dilution. Cells were fixed with 100% methanol. **ab150077**, an AlexaFluor® 488 conjugated goat anti-rabbit IgG (1/1000) was used as the secondary antibody. The cells were co-stained with **ab195889**, anti-alpha tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) at 1/200 dilution. Nuclei counterstained with DAPI (blue).

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results

Long-term and scalable supply
Recombinant technology

Success from the first experiment
Confirmed specificity

Ethical standards compliant
Animal-free production

Anti-IRAK4 antibody [Y279] (ab32511)

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