BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

# Anti-IRAK4 Antibody Picoband®

**Catalog Number:** A01247-4

## About IRAK4

IRAK-4(interleukin-1 receptor-associated kinase 4), also called REN64, in the IRAK family, is a protein kinase involved in signaling innate immune responses from Toll-like receptors. It also supports signaling from T-cell receptors. Scott(2002) mapped the REN64/IRAK4 gene to chromosome 12 based on similarity between the REN64 sequence(GenBank AF155118) and a chromosome 12 clone(GenBank AC093012). Functional analysis by Li et al.(2002) determined that IRAK4, like IRAK1 and Pelle, has auto- and cross-phosphorylation kinase activity. Precipitation and binding analyses showed weak interaction between IRAK4 and IRAK1, but IRAK4 did not interact with other IRAK family members. Overexpressed IRAK4 interacted with MYD88 and TRAF6 and activated mitogen-activated protein kinase(MAPK) and nuclear factor kappa-B(NFKB) pathways.

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## Overview

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| Product Name | Anti-IRAK4 Antibody Picoband® |
| Reactive Species | Human |
| Description | Boster Bio Anti-IRAK4 Antibody Picoband® catalog # A01247-4. Tested in WB, ELISA applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance. |
| Application | ELISA, WB |
| Clonality | Polyclonal |
| Formulation | Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4. |
| Storage Instructions | At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing. |
| Host | Rabbit |
| Uniprot ID | Q9NWZ3 |

## Technical Details

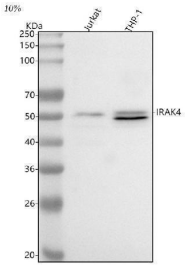
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| Immunogen | E.coli-derived human IRAK4 recombinant protein (Position: N15-S460). Human IRAK4 shares 84% amino acid (aa) sequence identity with mouse IRAK4. |

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| Recommended Detection Systems | Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot. |
| Form | Lyophilized |
| Concentration | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. |
| Purification | Immunogen affinity purified. |
| Suggested Dilutions | Western blot, 0.25-0.5 ug/ml, Human<br>ELISA, 0.1-0.5 ug/ml, - |

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# Anti-IRAK4 Antibody Picoband® (A01247-4) Images




Western blot analysis of IRAK4 using anti-IRAK4 antibody (A01247-4). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human Jurkat whole cell lysates, Lane 2: human THP-1 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-IRAK4 antigen affinity purified polyclonal antibody (Catalog # A01247-4) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for IRAK4 at approximately 52 kDa. The expected band size for IRAK4 is at 52 kDa.

Anti-IRAK4 Antibody

For Research Use Only. Not for use in diagnostic procedures.