

Anti-IRAKM Antibody
Catalog # ABO11517**Specification**

Anti-IRAKM Antibody - Product Information

Application	WB
Primary Accession	Q9Y616
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Interleukin-1 receptor-associated kinase 3 (IRAK3) detection. Tested with WB in Human.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-IRAKM Antibody - Additional Information

Gene ID 11213

Other Names

Interleukin-1 receptor-associated kinase 3, IRAK-3, 2.7.11.1, IL-1 receptor-associated kinase M, IRAK-M, IRAK3 {ECO:0000312|EMBL:AAH57800.1}

Calculated MW

67767 MW KDa

Application Details

Western blot, 0.1-0.5 µg/ml, Human

Tissue Specificity

Expressed predominantly in peripheral blood lymphocytes. .

Protein Name

Interleukin-1 receptor-associated kinase 3

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

Immunogen

A synthetic peptide corresponding to a sequence at the C-terminus of human IRAKM(543-562aa WFPKYIVPSQDLRPYKVNID).

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After r°Constitution, at 4°C for one month. It°Can also be aliquotted and stored frozen at -20°C for a longer time.Avoid repeated freezing and thawing.

Sequence Similarities

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

Anti-IRAKM Antibody - Protein Information

Name IRAK3 {ECO:0000312|EMBL:AAH57800.1}

Function

Putative inactive protein kinase which regulates signaling downstream of immune receptors including IL1R and Toll-like receptors (PubMed:10383454, PubMed:29686383). Inhibits dissociation of IRAK1 and IRAK4 from the Toll-like receptor signaling complex by either inhibiting the phosphorylation of IRAK1 and IRAK4 or stabilizing the receptor complex (By similarity). Upon IL33-induced lung inflammation, positively regulates expression of IL6, CSF3, CXCL2 and CCL5 mRNAs in dendritic cells (PubMed:29686383).

Cellular Location

Cytoplasm. Nucleus. Note=In dendritic cells, translocates into the nucleus upon IL33 stimulation. {ECO:0000250|UniProtKB:Q8K4B2}

Tissue Location

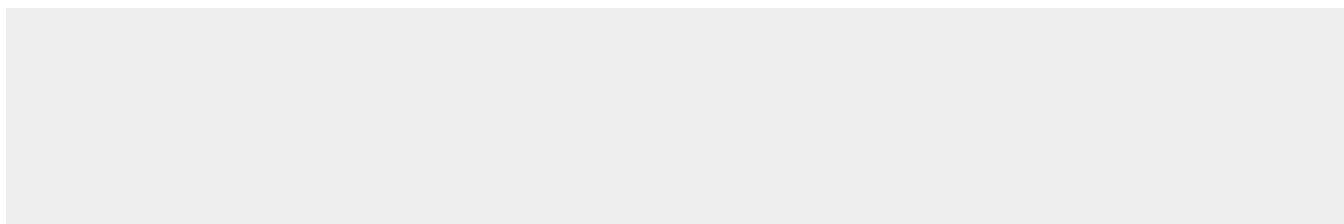
Expressed in eosinophils, dendritic cells and/or monocytes (at protein level) (PubMed:29686383). Expressed predominantly in peripheral blood lymphocytes (PubMed:10383454)

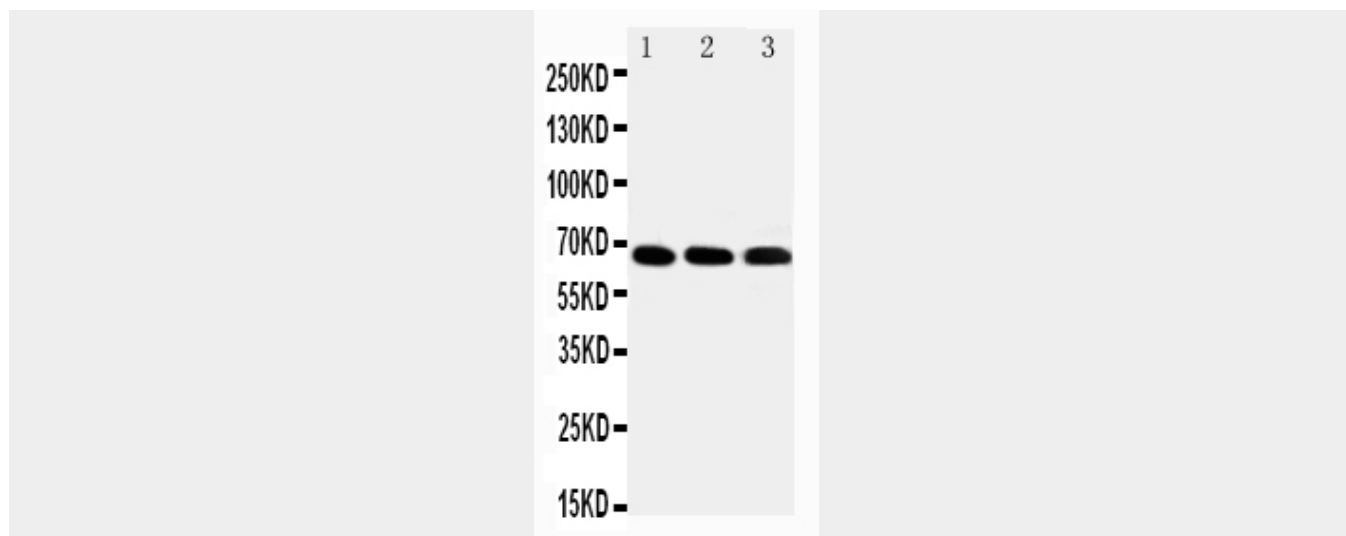
Anti-IRAKM Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-IRAKM Antibody - Images





Anti-IRAKM antibody, ABO11517, Western blotting
Lane 1: HELA Cell Lysate
Lane 2: JURKAT Cell Lysate
Lane 3: HUT102 Cell Lysate

Anti-IRAKM Antibody - Background

Interleukin-1 receptor-associated kinase 3, also called IRAK3 or IRAKM is an enzyme that in humans is encoded by the IRAK3 gene. The IRAKM gene consists of 12 exons spanning a region of approximately 60 kb in chromosome 12q14.3. This gene encodes a member of the interleukin-1 receptor-associated kinase protein family. Members of this family are essential components of the Toll/IL-R immune signal transduction pathways. This protein is primarily expressed in monocytes and macrophages and functions as a negative regulator of Toll-like receptor signaling. Mutations in this gene are associated with a susceptibility to asthma.