

Anti-IRAKM Antibody
Catalog # ABO11518**Specification**

Anti-IRAKM Antibody - Product Information

Application	WB, IHC
Primary Accession	Q8K4B2
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Interleukin-1 receptor-associated kinase 3 (IRAK3) detection. Tested with WB, IHC-P, ICC in Human; Mouse; Rat.

Reconstitution

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

Anti-IRAKM Antibody - Additional Information

Gene ID 73914

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|MGI:MGI:1921164}

Calculated MW

68455 MW KDa

Application Details

Immunocytochemistry , 0.1-0.5ug/ml, Human, Mouse, Rat
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, By Heat
Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat

Tissue Specificity

Highly expressed in liver and thymus and at lower levels in heart, brain, spleen and kidney. .

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 mouse IRAKM(349-364aa KHLWYMPEEYIRQGRL), identical to the related rat sequence, and different from the related human sequence by one amino acid.

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|MGI:MGI:1921164}

Function

Putative inactive protein kinase which regulates signaling downstream of immune receptors including IL1R and Toll-like receptors (PubMed:12150927, PubMed:12054681, 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 (PubMed:12150927, PubMed:12054681). 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.

Tissue Location

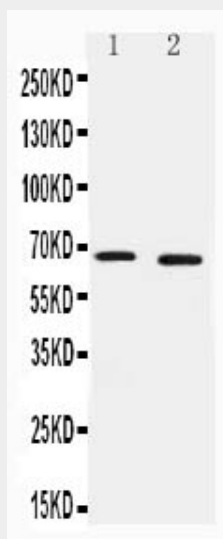
Expressed in inflamed lung macrophages (at protein level) (PubMed:29686383). Expressed in dendritic cells (at protein level) (PubMed:29686383). Highly expressed in liver and thymus and at lower levels in heart, brain, spleen and kidney (PubMed:12054681)

Anti-IRAKM Antibody - Protocols

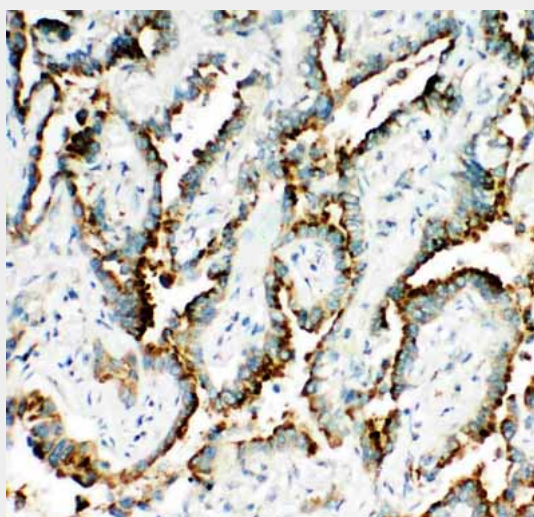
Provided below are standard protocols that you may find useful for product applications.

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

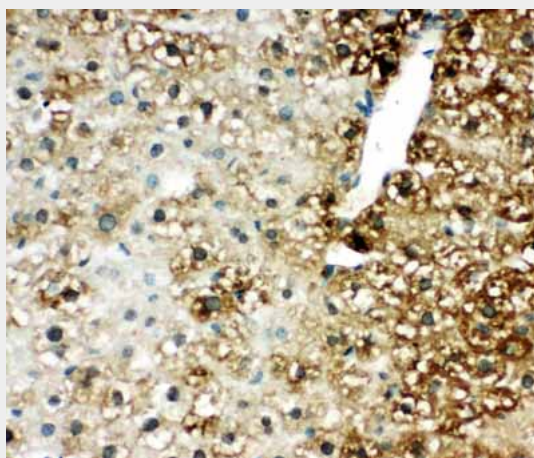
Anti-IRAKM Antibody - Images



Anti-IRAKM antibody, ABO11518, Western blotting
Lane 1: HELA Cell Lysate
Lane 2: JURKAT Cell Lysate



Anti-IRAKM antibody, ABO11518, IHC(P)
IHC(P): Human Lung Cancer Tissue



Anti-IRAKM antibody, ABO11518, IHC(P)
IHC(P): Mouse Liver Tissue

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.