

**IRAK3 Antibody**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO2049a****Specification****IRAK3 Antibody - Product Information**

Application	E, WB, IF, FC, IHC
Primary Accession	<a href="#">Q9Y616</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	67.8kDa KDa

**Description**

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. Alternate splicing results in multiple transcript variants.

**Immunogen**

Purified recombinant fragment of human IRAK3 (AA: 454-596) expressed in E. Coli.

**Formulation**

Purified antibody in PBS with 0.05% sodium azide

**IRAK3 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}

**Dilution**

E~~1/10000  
WB~~1/500 - 1/2000  
IF~~1/200 - 1/1000  
FC~~1/200 - 1/400  
IHC~~1/200 - 1/1000

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

IRAK3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## **IRAK3 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:<a href="http://www.uniprot.org/citations/10383454" target="\_blank">10383454</a>, PubMed:<a href="http://www.uniprot.org/citations/29686383" target="\_blank">29686383</a>). 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:<a href="http://www.uniprot.org/citations/29686383" target="\_blank">29686383</a>).

### **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)

## **IRAK3 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](#)