

# IRAK3 Antibody

Purified Mouse Monoclonal Antibody

Catalog # AO2048a

## Product Information

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<b>Application</b>	WB, ICC, E
<b>Primary Accession</b>	<a href="#">Q9Y616</a>
<b>Reactivity</b>	Human
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Clone Names</b>	5C3D6
<b>Isotype</b>	IgG1
<b>Calculated MW</b>	67767
<b>Description</b>	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.
<b>Immunogen</b>	Purified recombinant fragment of human IRAK3 (AA: 454-596) expressed in E. Coli.
<b>Formulation</b>	Purified antibody in PBS with 0.05% sodium azide

## Additional Information

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<b>Gene ID</b>	11213
<b>Other Names</b>	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}
<b>Dilution</b>	WB~~1/500 - 1/2000 ICC~~N/A E~~1/10000
<b>Storage</b>	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.
<b>Precautions</b>	IRAK3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	IRAK3 {ECO:0000312 EMBL:AAH57800.1}
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<b>Function</b>	Putative inactive protein kinase which regulates signaling downstream of immune receptors including IL1R and Toll-like receptors (PubMed: <a href="#">10383454</a> , PubMed: <a href="#">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="#">29686383</a> ).
<b>Cellular Location</b>	Cytoplasm. Nucleus. Note=In dendritic cells, translocates into the nucleus upon IL33 stimulation. {ECO:0000250 UniProtKB:Q8K4B2}
<b>Tissue Location</b>	Expressed in eosinophils, dendritic cells and/or monocytes (at protein level) (PubMed:29686383). Expressed predominantly in peripheral blood lymphocytes (PubMed:10383454)

## References

1.PLoS One. 2012;7(1):e30414.2.Am J Respir Cell Mol Biol. 2011 Oct;45(4):740-5.

## Images

