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IRAK3 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO2049a

Product Information

Application	WB, IHC, FC, ICC, E
Primary Accession	Q9Y616
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	6G9G2
Isotype	IgG1
Calculated MW	67767
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

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	WB~~1/500 - 1/2000 IHC~~1/200 - 1/1000 FC~~1/200 - 1/400 ICC~~N/A E~~1/10000
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.

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)

References

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

Images

