

Anti-IRAKM Antibody

Catalog # ABO11517

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.

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
Application Details	Western blot, 0.1-0.5 µg/ml, Human
Tissue Specificity	Expressed predominantly in peripheral blood lymphocytes. .
Source	Eukaryota
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.

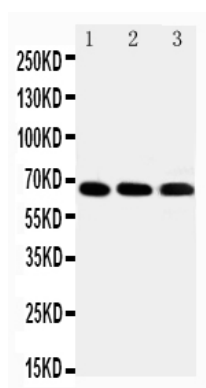
Protein Information

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)

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.

Images



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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.