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IRAK1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant IRAK1.
Catalog # AT2538a

Product Information

Application	WB, IHC, IF, IP, E
Primary Accession	P51617
Other Accession	BC054000
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	3F7
Calculated MW	76537

Additional Information

Gene ID	3654
Other Names	Interleukin-1 receptor-associated kinase 1, IRAK-1, IRAK1, IRAK
Target/Specificity	IRAK1 (AAH54000, 530 a.a. ~ 693 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IHC~~1:100~500 IF~~1:50~200 IP~~N/A E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	IRAK1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

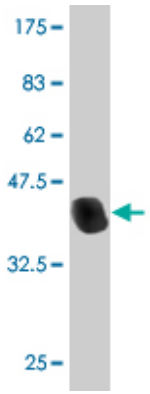
This gene encodes the interleukin-1 receptor-associated kinase 1, one of two putative serine/threonine kinases that become associated with the interleukin-1 receptor (IL1R) upon stimulation. This gene is partially responsible for IL1-induced upregulation of the transcription factor NF-kappa B. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

References

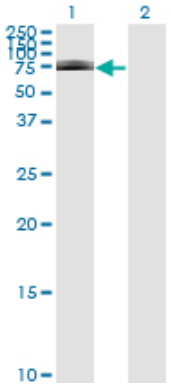
Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.Molecular mechanism underlying the inflammatory complication of leptin

in macrophages. Vaughan T, et al. Mol Immunol, 2010 Sep. PMID 20619458.The role of microRNA-146a (miR-146a) and its target IL-1R-associated kinase (IRAK1) in psoriatic arthritis susceptibility. Chatzikyriakidou A, et al. Scand J Immunol, 2010 May. PMID 20500689.Role of polymorphic variants as genetic modulators of infection in neonatal sepsis. Abu-Maziad A, et al. Pediatr Res, 2010 Oct. PMID 20463618.Association between anti-tumour necrosis factor treatment response and genetic variants within the TLR and NF{kappa}B signalling pathways. Potter C, et al. Ann Rheum Dis, 2010 Jul. PMID 20448286.

Images

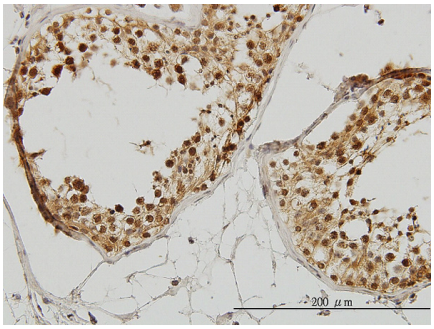


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (43.45 KDa) .

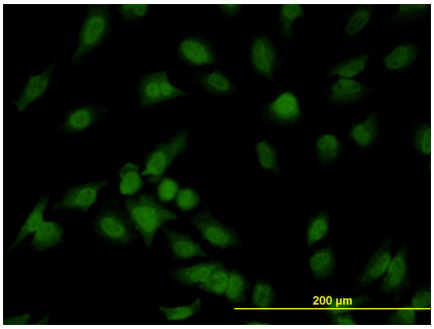


Western Blot analysis of IRAK1 expression in transfected 293T cell line by IRAK1 monoclonal antibody (M01), clone 3F7.

Lane 1: IRAK1 transfected lysate(68 KDa).
Lane 2: Non-transfected lysate.

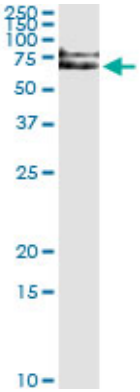


Immunoperoxidase of monoclonal antibody to IRAK1 on formalin-fixed paraffin-embedded human testis. [antibody concentration 3 ug/ml]

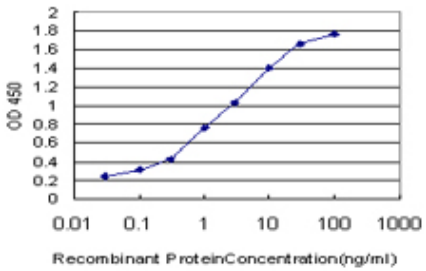


Immunofluorescence of monoclonal antibody to IRAK1 on HeLa cell. [antibody concentration 10 ug/ml]

Immunoprecipitation of IRAK1 transfected lysate using anti-IRAK1 monoclonal antibody and Protein A Magnetic



Bead (U0007), and immunoblotted with IRAK1 MaxPab rabbit polyclonal antibody.



Detection limit for recombinant GST tagged IRAK1 is approximately 0.1ng/ml as a capture antibody.

Citations

- Hybrid Cells Derived from Human Breast Cancer Cells and Human Breast Epithelial Cells Exhibit Differential TLR4 and TLR9 Signaling.

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