

Product datasheet for **TA319667**

IRAK (IRAK1) Mouse Monoclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 1 - 2 ug/mL, ICC: 2.5 ug/mL
Reactivity:	Human, Mouse
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant protein corresponding to amino acids 618 - 712 of human IRAK.
Formulation:	IRAK Monoclonal Antibody is supplied in PBS containing 0.02% sodium azide.
Concentration:	1 mg/ml
Purification:	IRAK Monoclonal Antibody is immunoaffinity chromatography purified IgG.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	interleukin 1 receptor associated kinase 1
Database Link:	NP_001020413 Entrez Gene 16179 Mouse Entrez Gene 3654 Human P51617

Background: IRAK Monoclonal Antibody: Nuclear factor kappa B (NF-kappaB) is a ubiquitous transcription factor and an essential mediator of gene expression during activation of immune and inflammatory responses. NF-kB mediates the expression of a great variety of genes in response to extracellular stimuli including IL-1, TNFalpha and LPS. A serine/threonine protein kinase associated with IL-1 receptor (IRAK) and its homologue mouse pelle-like protein kinase (mPLK) were identified recently. IRAK is associated with the IL-1 receptor subunits IL-1RI and IL-1RAcP after IL-1 binding and serves as a signaling molecule to mediate IL-1 response. IRAK mediates a signaling cascade leading to NF-kB activation by members in IL-1 family including IL-1 and a novel cytokine IL-18 (also termed IGIF).

Synonyms: IRAK; pelle

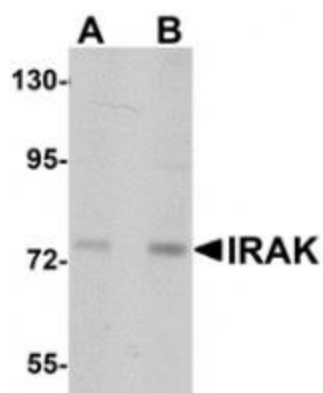


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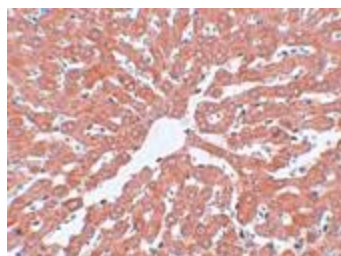
Protein Families: Druggable Genome, Protein Kinase, Transcription Factors

Protein Pathways: Apoptosis, Neurotrophin signaling pathway, Toll-like receptor signaling pathway

Product images:



Western blot analysis of IRAK in HeLa lysates with IRAK antibody at (A) 1 and (B) 2 ug/mL.



Immunohistochemistry of IRAK in rat liver tissue with IRAK antibody at 2.5 ug/mL.