IRAK2 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	IRAK2, Monoclonal Antibody
Full Product Name	IRAK2 (Interleukin-1 Receptor-Associated Kinase 2, IRAK-2, MGC150550) (MaxLight 750)
Product Gene Name	anti-IRAK2 antibody
Product Synonym Names	Interleukin-1 Receptor-Associated Kinase 2; IRAK-2; MGC150550
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	1A6
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified
Specificity	Recognizes IRAK2.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	69,433 Da
OMIM	603304
3D Structure	ModBase 3D Structure for O43187
Immunogen	IRAK2 (NP_001561, 111aa-210aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	KPEKPLAASVRKAEDEQEEGQPVRMATFPGPGSSPARAHQPAFLQPPEEDAPHSLRSDLPTSSDSKDFSTSIPKQEKLLSLAGDSLFWSEADVVQATDD
Conjugate	MaxLight750
Product Categories/Family for anti-IRAK2 antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-IRAK2 antibody	Western Blot (WB)
Application Notes for anti-IRAK2 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-IRAK2 antibody	IRAK2 encodes the interleukin-1 receptor-associated kinase 2, one of two putative serine/threonine kinases that become associated with the interleukin 1 receptor (IL1R) upon stimulation. IRAK2 is reported to participate in the IL1-induced upregulation of NF-kappaB. [provided by RefSeq]

Other Notes	Small volumes of anti-IRAK2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for IRAK2 purchase	MBS6238980 is an antibody targeting IRAK2. Also known as IRAK2 (Interleukin-1 Receptor-Associated Kinase 2, IRAK-2, MGC150550) (MaxLight 750). Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IRAK2. It may not necessarily be applicable to this product.

NCBI GI #	58530886
NCBI GeneID	3656
NCBI Accession #	NP_001561
UniProt Primary Accession #	O43187
UniProt Secondary Accession #	Q08AG6; Q5K546; B4DQZ6
UniProt Related Accession #	O43187
GenBank Nucleotide #	NM_001570
NCBI Official Full Name	interleukin-1 receptor-associated kinase-like 2
NCBI Official Synonym Full Names	interleukin-1 receptor-associated kinase 2
NCBI Official Symbol	IRAK2
NCBI Official Synonym Symbols	IRAK-2
UniProt Protein Name	Interleukin-1 receptor-associated kinase-like 2
Protein Family	Interleukin-1 receptor-associated kinase
UniProt Gene Name	IRAK2
UniProt Synonym Gene Names	IRAK-2
UniProt Entry Name	IRAK2_HUMAN
NCBI Protein Information	interleukin-1 receptor-associated kinase-like 2; interleukin-1 receptor associated kinase-2

UniProt Comments for IRAK2	IRAK2: Binds to the IL-1 type I receptor following IL-1 engagement, triggering intracellular signaling cascades leading to transcriptional up-regulation and mRNA stabilization. Interacts with MYD88. IL-1 stimulation leads to the formation of a signaling complex which dissociates from the IL-1 receptor following the binding of PELI1. Expressed in spleen, thymus, prostate, lung, liver, skeletal muscle, kidney, pancreas and peripheral blood leukocytes. Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family. Pelle subfamily. Protein type: Protein kinase, Ser/Thr (non-receptor); Protein kinase, TKL; Kinase, protein; TKL group; IRAK family Chromosomal Location of Human Ortholog: 3p25.3 Cellular Component: interleukin-1 receptor complex; cytoplasm; plasma membrane; endosome membrane; cytosol; nucleus Molecular Function: protein serine/threonine kinase activity; protein binding; protein homodimerization activity; protein heterodimerization activity; ATP binding Biological Process: I-kappaB kinase/NF-kappaB cascade; activation of MAPK activity; MyD88-independent toll-like receptor signaling pathway; stress-activated MAPK cascade; toll-like receptor 3 signaling pathway; protein amino acid phosphorylation; activation of NF-kappaB transcription factor; toll-like receptor 2 signaling pathway; toll-like receptor 10 signaling pathway; MyD88-dependent toll-like receptor signaling pathway; toll-like receptor 5 signaling pathway; inhibition of NF-kappaB transcription factor; lipopolysaccharide-mediated signaling pathway; toll-like receptor signaling pathway; innate immune response; regulation of cytokine and chemokine mediated signaling pathway; JNK cascade; toll-like receptor 9 signaling pathway; inflammatory response; toll-like receptor 4 signaling pathway
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