

Recombinant Human IRAK1

Cat. No. IRAK1-27500TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human IRAK with an N terminal proprietary tag; Predicted MWt 95.7 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	633 amino acids
Description	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.
Molecular Weight	95.700kDa inclusive of tags
Tissue specificity	Isoform 1 and isoform 2 are ubiquitously expressed in all tissues examined, with isoform 1 being more strongly expressed than isoform 2.
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl

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Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MAGGPGPGEPAAPGAQHFLYEVPWVMCRFYKVMDALEPA DWQCQFAALIVRDQT ELRLCERSGQRTASVLWPWINRNARV ADLVHILTHLQLLRARDIITAWHPPAPLPSP GTTAPRPSS IPAPAEAEAWSPRKLPSSASTFLSPAFFPGSQTHSGPELGL VPSPASL WPPPPSPAPSSTKPGPESSVSLQGARPSPCFW PLCEISRGTHNFSEELKIGEGGF GCVYRAVMRNTVYAVKR LKENADLEWTAVKQSFLTEVEQLSRFRHPNIVDFAGYC AQ NGFYCLVYGFLPNGSLEDRLHCQTQACPPLSWPQRLDILL GTARAIQFLHQDSP SLIHGDIKSSNVLLDERLTPKLDFG LARFSRFAGSSPSQSSMVARTQTVRGTLAYL PEEYIKTGR LAVDTDTFSGVWVLETLAQRAVKTHGARTKYLVERLE KLQAVVA GVPGHLEAASCIPPSPQENSYSSTGRAHSGAA PWQPLAAPSGASAAEQLRG PNQPVESDESLGGLSAAAL RSWHLTPSCPLDPAPLREAGCPQGDTAGESSWGSGP GSRP TAVEGLALGSSASSSSEPPQIIINPARQKMVQKLALYEDG ALDSLQLLSSSSL PGLGLEQDRQGPEESDEFQS
Sequence Similarities	Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family. Pelle subfamily. Contains 1 protein kinase domain.

GENE INFORMATION

Gene Name	IRAK1 interleukin-1 receptor-associated kinase 1 [Homo sapiens]
Official Symbol	IRAK1
Synonyms	IRAK1; interleukin-1 receptor-associated kinase 1; IRAK; pelle;
Gene ID	3654
mRNA Refseq	NM_001569

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Protein Refseq	NP_001560
MIM	300283
Uniprot ID	P51617
Chromosome Location	Xq28
Pathway	Activated TLR4 signalling, organism-specific biosystem; Apoptosis, organism-specific biosystem; Apoptosis, conserved biosystem; Chagas disease (American trypanosomiasis), organism-specific biosystem; Chagas disease (American trypanosomiasis), conserved biosystem;
Function	ATP binding; NF-kappaB-inducing kinase activity; interleukin-1 receptor binding; kinase activity; nucleotide binding;

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