

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

MAGGGPGGEPAAPGAQHFLYEVPWVMCRFYKVMDALEPA DWCQFAALIVRDQT
 ELRLCERSGQRTASVLWPWINRNARV ADLVHILTHLQLLRARDIITAWHPPAPLPSP
 GTTAPRPSS IPAPAEAEAWSPRKLPSASTFLSPAFFGSGQTHSGPELGL VPSPASL
 WPPPPSPAPSSTKPGPESSVSLQGARPSFCW PLCEISRGTNHFSEELKIGEGGF
 GCVYRAVMRNTVYAVKR LKENADLEWTAVKQSFLTEVEQLSRFRHPNIVDFAGYC
 AQ NGFYCLVYGFLPNGSLEDRLHCQTQACPPLSWPQRDLILL GTARAIQFLHQDSP
 SLIHGDIKSSNVLLDERLTPKLGDFG LARFSRFAGSSPSQSSMVARTQTVRGTLAYL
 PEEYIKTGR LAVDTDTFSGVVVLETLAQRAVKTHGARTKYLVERLE KLQAVVA
 GVPGHLEAASCIPPSPQENSYVSSTGRAHSGAA PWQPLAAPSGASAAEQLRG
 PNQPVESDESLGGLSAL 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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