Recombinant Human IRAK1

Cat. No. IRAK1-27502TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 530-693 of Human IRAK with an N terminal proprietary tag; Predicted MWt 43.45 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	164 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	43.450kDa 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: 8.00Constituents: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	SSTGRAHSGAAPWQPLAAPSGASAQAAEQLQRGPNQPVES DESLGGLSAALRSW HLTPSCPLDPAPLREAGCPQGDTAGE SSWGSGPGSRPTAVEGLALGSSASSSSEP PQIIINPARQK MVQKLALYEDGALDSLQLLSSSSLPGLGLEQDRQGPEESD EFQS
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
Protein Refseq	NP_001560
MIM	300283
Uniprot ID	P51617
Chromosome Location	Xq28
Pathway	Activated TLR4 signalling, organism-specific biosystem; Apoptosis, organism-specific

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	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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