

Active Recombinant Human IRAK2, GST-tagged

Cat. No. IRAK2-1417H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human IRAK2 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	Full length
Description	Interleukin-1 receptor-associated kinase 2 (IRAK2) is important downstream signaling components of Toll-like receptors (TLRs). IRAKs were first described as signal transducers for IL-1 and later have been implicated in signal transduction of other members of the Toll/IL-1 receptor family. The interleukin-1 receptor (IL-1R) signaling pathway leads to NF κ B activation in mammals. To date, four mammalian IRAKs have been identified (IRAK-1, IRAK-2, IRAK-4, and IRAK-M). It is believed that IRAK-2 could be an additional therapeutic target for inhibiting IL-1-induced inflammation.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Bio-activity	6 nmol/min/mg
Molecular Mass	~103 kDa
Purity	>75%

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Applications	Kinase Assay, Western Blot
Storage	Store at -70°C . For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
Concentration	0.1 $\mu\text{g}/\mu\text{l}$
GENE INFORMATION	
Gene Name	IRAK2 interleukin-1 receptor-associated kinase 2 [Homo sapiens]
Official Symbol	IRAK2
Synonyms	IRAK2; interleukin-1 receptor-associated kinase 2; interleukin-1 receptor-associated kinase-like 2; interleukin-1 receptor associated kinase-2; IRAK-2; MGC150550;
Gene ID	3656
mRNA Refseq	NM_001570
Protein Refseq	NP_001561
MIM	603304
UniProt ID	O43187
Chromosome Location	3p25.2
Pathway	Activated TLR4 signalling, organism-specific biosystem; Apoptosis, organism-specific biosystem; Apoptosis, conserved biosystem; Cytokine Signaling in Immune system,

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organism-specific biosystem; IL-1 Signaling Pathway, organism-specific biosystem; IRAK2 mediated activation of TAK1 complex, organism-specific biosystem; IRAK2 mediated activation of TAK1 complex upon TLR7/8 or 9 stimulation, organism-specific biosystem;

Function

ATP binding; nucleotide binding; protein binding; protein heterodimerization activity; protein homodimerization activity; protein kinase activity; transferase activity, transferring phosphorus-containing groups;

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