

IRAK1 recombinant protein

IRAK1, Active

CATALOG # AAA73617	HOST Sf9 insect cells	APPLICATIONS Western Blot
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PRODUCT SYNONYMS

IRAK1; Active; IRAK; Pelle; IRAK1 recombinant protein

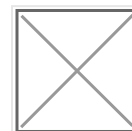
PRODUCT SPECIFICATIONS

Host	Sf9 insect cells
Purity/Purification	>90%
Form/Format	Recombinant protein stored in 50mM Tris-HCl, pH7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, and 25% glycerol.
Concentration	0.05ug/ul (varies by lot)
Applicable Applications for IRAK1 recombinant protein	WB (Western Blot), Kinase Assay
Tag	N-Terminal GST Tag
Species	Human
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

IMAGES


SDS-PAGE

The purity of IRAK1 was determined to be >90% by densitometry. Approx. MW 132 kDa.


Specific Activity

The specific activity of IRAK1 was determined to be 31 nmol/min/mg as per activity assay protocol.

ADDITIONAL INFORMATION

Related Product Information for IRAK1 recombinant protein	Recombinant full-length human IRAK1 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The gene accession number is NM_001569. IRAK1 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. The exposure of HeLa cells or human embryonic kidney cells overexpressing IL1R to IL1 caused rapid association of IRAK with the IL1R complex and phosphorylation of IRAK (1). IRAK1 is partially responsible for IL1-induced upregulation of the transcription factor NF-kappa B. IRAK1 as a risk gene with critical role in the pathogenesis of systemic lupus erythematosus (2).
Product Categories/Family for IRAK1 recombinant protein	Protein Kinases; Inflammation; NfκB Pathway; p38 Pathway; Ser/Thr Kinases

References

1. Cao, Z.et.al: IRAK: a kinase associated with the interleukin-1 receptor. Science 271: 1128-1131, 1996.
2. Jacob, C. O. et.al: Identification of IRAK1 as a risk gene with critical role in the pathogenesis of systemic lupus erythematosus. Proc. Nat. Acad. Sci. 106: 6256-6261, 2009.

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #	NM_001569
Molecular Weight	132kDa

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/irak1-recombinant-protein-sf9-insect-cells-wb-western-blot-kinase-assay/73617>