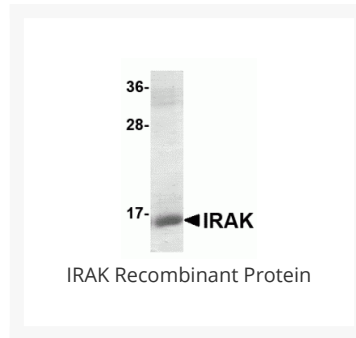




IRAK Recombinant Protein

Cat. No.: 95-112



Ψ Specifications

| | |
|------------------------------------|---|
| SPECIES: | Human |
| SOURCE SPECIES: | E. coli |
| SEQUENCE: | aa 618 - 712 |
| FUSION TAG: | Fusion Partner: C-terminal His-tag |
| TESTED APPLICATIONS: | ELISA, WB |
| APPLICATIONS: | This recombinant protein can be used for WB and ELISA. For research use only. |
| PREDICTED MOLECULAR WEIGHT: | 15 kDa (Calculated) |

Ψ Properties

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|----------------------------|--|
| PURITY: | ~95% |
| PHYSICAL STATE: | Liquid |
| BUFFER: | 100mM sodium phosphate, 500mM NaCl, 25 mM imidazole, 10% glycerol |
| STORAGE CONDITIONS: | Store in working aliquots at -70 °C. Avoid freeze/thaw cycles. When working with proteins care should be taken to keep recombinant protein at a cool and stable temperature. |

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|-------------------------|--|
| OFFICIAL SYMBOL: | IRAK1 |
| ALTERNATE NAMES: | IRAK Antibody: IRAK, pelle, IRAK, Interleukin-1 receptor-associated kinase 1, IRAK-1 |
| ACCESSION NO.: | P51617 |
| PROTEIN GI NO.: | 8928535 |
| GENE ID: | 3654 |

Background and References

| | |
|--------------------|---|
| BACKGROUND: | Nuclear factor kappa B (NF- κ B) is a ubiquitous transcription factor and an essential mediator of gene expression during activation of immune and inflammatory responses. NF- κ B mediates the expression of a great variety of genes in response to extracellular stimuli including IL-1, TNF α and LPS. A serine/threonine protein kinase associated with IL-1 receptor (IRAK) and its homologue mouse pelle-like protein kinase (mPLK) were identified recently (1,2). IRAK is associated with the IL-1 receptor subunits IL-1RI and IL-1RAcP after IL-1 binding and serves as a signaling molecule to mediate IL-1 response (3). IRAK mediates a signaling cascade leading to NF- κ B activation by members in IL-1 family including IL-1 and a novel cytokine IL-18 (also termed IGIF) (1,4). |
| REFERENCES: | 1) Cao Z,; Henzel WJ, and Gao X. IRAK: a kinase associated with the interleukin-1 receptor. <i>Science</i> 1996; 271:1128-31. |
| | 2) Trofimova M, Sprengle AB, Green M; et al. Developmental and tissue-specific expression of mouse pelle-like protein kinase. <i>J. Bio. Chem.</i> 1996; 271: 17609-12. |
| | 3) Jianing Huang, Xiong Gao, Shyun Li, et al. Recruitment of IRAK to the interleukin 1 receptor complex requires interleukin-1 receptor accessory protein. <i>Proc. Natl. Acad. Sci. USA</i> 1997; 94:12829-32. |
| | 4) Robinson D, Shibuya K, Mui A, et al. IGIF does not drive Th1 development but synergizes with IL-12 for interferon-gamma production and activates IRAK and NF-kB. <i>Immunity</i> 1997; 7:571-81. |

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