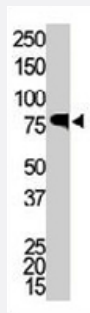


# IRAK1 polyclonal antibody

Catalog # PAB3469

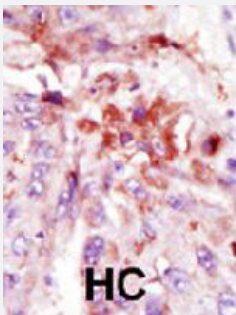
Size 400 uL

## Applications



### Western Blot (Cell lysate)

Western blot analysis of IRAK1 polyclonal antibody (Cat # PAB3469) in Jurkat cell lysate. IRAK1 (Arrow) was detected using purified polyclonal antibody. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human hepatocellular carcinoma tissue reacted with IRAK1 polyclonal antibody (Cat # PAB3469), which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. HC = hepatocarcinoma.

## Specification

|                            |                                                                                       |
|----------------------------|---------------------------------------------------------------------------------------|
| <b>Product Description</b> | Rabbit polyclonal antibody raised against synthetic peptide of IRAK1.                 |
| <b>Immunogen</b>           | A synthetic peptide (conjugated with KLH) corresponding to C-terminus of human IRAK1. |
| <b>Host</b>                | Rabbit                                                                                |
| <b>Reactivity</b>          | Human                                                                                 |
| <b>Form</b>                | Liquid                                                                                |
| <b>Purification</b>        | Protein G purification                                                                |

|                            |                                                                                                                                                                                |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Recommend Usage</b>     | Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:50-100)<br>Western Blot (1:1000)<br>The optimal working dilution should be determined by the end user. |
| <b>Storage Buffer</b>      | In PBS (0.09% sodium azide)                                                                                                                                                    |
| <b>Storage Instruction</b> | Store at 4°C. For long term storage store at -20°C.<br>Aliquot to avoid repeated freezing and thawing.                                                                         |
| <b>Note</b>                | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.                                                         |

## Applications

- Western Blot (Cell lysate)

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## Gene Info — IRAK1

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Entrez GeneID</b>      | <a href="#">3654</a>                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Protein Accession#</b> | <a href="#">P51617</a>                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Gene Name</b>          | IRAK1                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Gene Alias</b>         | IRAK, pelle                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Gene Description</b>   | interleukin-1 receptor-associated kinase 1                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Omim ID</b>            | <a href="#">300283</a>                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Gene Ontology</b>      | <a href="#">Hyperlink</a>                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Gene Summary</b>       | 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 IL-1-induced upregulation of the transcription factor NF-kappa B. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq] |
| <b>Other Designations</b> | OTTHUMP00000026014 OTTHUMP00000026020 Pelle homolog                                                                                                                                                                                                                                                                                                                                                                               |

## Publication Reference

- [Pellino3, a novel member of the Pellino protein family, promotes activation of c-Jun and Elk-1 and may act as a scaffolding protein.](#)

Jensen LE, Whitehead AS.

The Journal of Immunology 2003 Aug; 171(3):1500.

Application: IP, WB-Tr, Human, 293 cells

- [Pellino 1 is required for interleukin-1 \(IL-1\)-mediated signaling through its interaction with the IL-1 receptor-associated kinase 4 \(IRAK4\)-IRAK-tumor necrosis factor receptor-associated factor 6 \(TRAF6\) complex.](#)

Jiang Z, Johnson HJ, Nie H, Qin J, Bird TA, Li X.

The Journal of Biological Chemistry 2003 Mar; 278(13):10952.

- [IRAK: a kinase associated with the interleukin-1 receptor.](#)

Cao Z, Henzel WJ, Gao X.

Science 1996 Feb; 271(5252):1128.

## Pathway

- [Apoptosis](#)
- [Neurotrophin signaling pathway](#)
- [Toll-like receptor signaling pathway](#)

## Disease

- [Arthritis](#)
- [Atherosclerosis](#)
- [Brain Ischemia](#)
- [Calcinosis](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)

- [Cerebral Hemorrhage](#)
- [Chronic Disease](#)
- [Coronary Artery Disease](#)
- [Crohn Disease](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [HIV Infections](#)
- [Hypertension](#)
- [Kidney Diseases](#)
- [Lupus Erythematosus](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)
- [Sepsis](#)
- [Shock](#)
- [Stroke](#)
- [Thyroid Neoplasms](#)
- [Translocation](#)
- [Werner syndrome](#)