

## IRAK Antibody

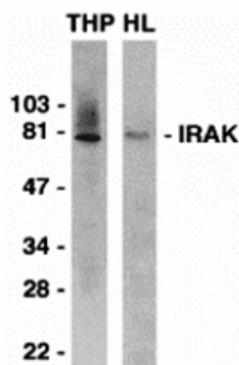
Catalog No: #24001

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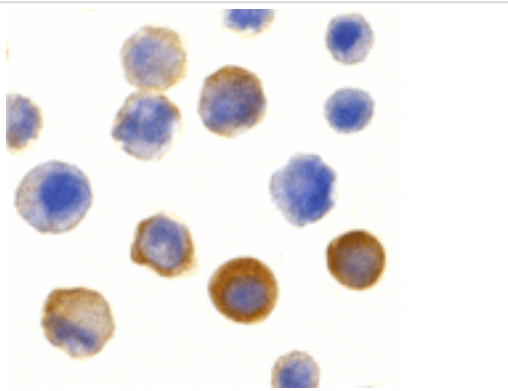
## Description

Product Name	IRAK Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	DEAE purified
Applications	E WB ICC IP
Species Reactivity	Hu Ms Rt
Specificity	No cross response to IRAK2.
Immunogen Type	Peptide
Immunogen Description	Raised against a peptide corresponding to amino acids near the carboxy terminus of human IRAK.
Target Name	IRAK
Other Names	IL-1-Receptor Associated Kinase
Accession No.	P51617
Formulation	Supplied in PBS containing 0.02% sodium azide.
Storage	Can be stored at -20°C, stable for one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

## Images



Western blot analysis of IRAK in THP-1 (THP) and HeLa (HL) whole cell lysates with IRAK antibody at 1:2000 dilution.



Immunocytochemistry of IRAK in HeLa cells with IRAK antibody at 10 ug/mL.

## Background

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Nuclear factor kappa B (NF- $\kappa$ B) is a ubiquitous transcription factor and an essential mediator of gene expression during activation of immune and inflammatory responses. NF- $\kappa$ B mediates the expression of a great variety of genes in response to extracellular stimuli including IL-1, TNF $\alpha$  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. 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. IRAK mediates a signaling cascade leading to NF- $\kappa$ B activation by members in IL-1 family including IL-1 and a novel cytokine IL-18 (also termed IGIF).

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Note: This product is for in vitro research use only and is not intended for use in humans or animals.