

Product Name: IRAK-1 Rabbit Polyclonal Antibody
Catalog #: APRab12725



Summary

Production Name	IRAK-1 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,IHC-P
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	IRAK1
Alternative Names	IRAK1; IRAK; Interleukin-1 receptor-associated kinase 1; IRAK-1
Gene ID	3654.0
SwissProt ID	P51617.The antiserum was produced against synthesized peptide derived from human IRAK1. AA range:353-402

Application

Dilution Ratio	WB 1:500-2000, IHC-P 1:50-300
Molecular Weight	76kDa

Background

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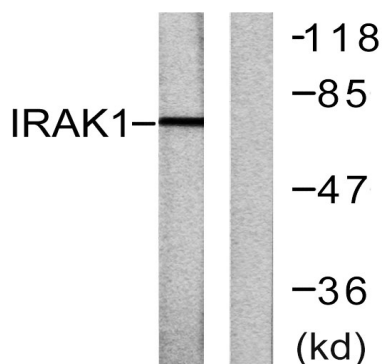


This gene encodes the interleukin-1 receptor-associated kinase 1, one of two putative serine/threonine kinases that become associated with the interleukin-1 receptor (IL1R) upon stimulation. This gene is partially responsible for IL1-induced upregulation of the transcription factor NF-kappa B. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008], catalytic activity: ATP + a protein = ADP + a phosphoprotein., cofactor: Magnesium., function: Binds to the IL-1 type I receptor following IL-1 engagement, triggering intracellular signaling cascades leading to transcriptional up-regulation and mRNA stabilization. Isoform 1 binds rapidly but is then degraded allowing isoform 2 to mediate a slower, more sustained response to the cytokine. Isoform 2 is inactive suggesting that the kinase activity of this enzyme is not required for IL-1 signaling. Once phosphorylated, IRAK1 recruits the adapter protein PELI1., PTM: Autophosphorylated or is transphosphorylated by IRAK4 following recruitment to the IL-1R1. In the case of isoform 1, this is linked to ubiquitination and degradation., similarity: Belongs to the protein kinase superfamily., similarity: Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family. Pelle subfamily., similarity: Contains 1 protein kinase domain., subunit: IL-1 stimulation leads to the formation of a signaling complex which dissociates from the IL-1 receptor following the binding of PELI1. Interacts with IL1RL1. Interacts with IRAK1BP1., tissue specificity: Isoform 1 and isoform 2 are ubiquitously expressed in all tissues examined, with isoform 1 being more strongly expressed than isoform 2.,

Research Area

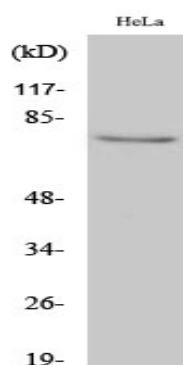
Apoptosis_Inhibition; Apoptosis_Mitochondrial; Apoptosis_Overview; Toll_Like; Neurotrophin;

Image Data



Western blot analysis of lysates from HeLa cells, using IRAK1 Antibody. The lane on the right is blocked with the synthesized peptide.

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Western Blot analysis of various cells using IRAK-1 Polyclonal Antibody

Note

For research use only.