

Product Name: IRAK (15J6) Rabbit Monoclonal Antibody

Catalog #: AMRe12724

For research use only.

Summary

Description Recombinant rabbit monoclonal antibody

Host Rabbit
Application WB,IP
Reactivity Human

ConjugationUnconjugatedModificationUnmodified

Isotype IgG

Clonality Monoclonal
Form Liquid

Concentration 0.5mg/ml. The concentration of this product may be batch-dependent.

Storage Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.

Shipping Ice bags

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% New type preservative

Buffer N and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw

cycle.

Purification Affinity purification

Application

Dilution Ratio WB 1:500-1:2000,IP 1:50-1:200

Molecular Weight 77kDa

Antigen Information

Gene Name IRAK1

Alternative Names II1rak; IRAK; Irak1; IRAK1-S; mPLK; Pelle; Pelle homolog; Pelle-like protein kinase; Plpk;

 Gene ID
 3654.0

 SwissProt ID
 P51617

Immunogen Recombinant protein of human IRAK

Background

Binds to the IL-1 type I receptor following IL-1 engagement, triggering intracellular signaling cascades leading to

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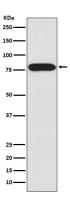


transcriptional up-regulation and mRNA stabilization. Serine/threonine-protein kinase that plays a critical role in initiating innate immune response against foreign pathogens. Involved in Toll-like receptor (TLR) and IL-1R signaling pathways. Is rapidly recruited by MYD88 to the receptor-signaling complex upon TLR activation. Association with MYD88 leads to IRAK1 phosphorylation by IRAK4 and subsequent autophosphorylation and kinase activation. Phosphorylates E3 ubiquitin ligases Pellino proteins (PELI1, PELI2 and PELI3) to promote pellino-mediated polyubiquitination of IRAK1. Then, the ubiquitin-binding domain of IKBKG/NEMO binds to polyubiquitinated IRAK1 bringing together the IRAK1-MAP3K7/TAK1-TRAF6 complex and the NEMO-IKKA-IKKB complex. In turn, MAP3K7/TAK1 activates IKKs (CHUK/IKKA and IKBKB/IKKB) leading to NF-kappa-B nuclear translocation and activation. Alternatively, phosphorylates TIRAP to promote its ubiquitination and subsequent degradation. Phosphorylates the interferon regulatory factor 7 (IRF7) to induce its activation and translocation to the nucleus, resulting in transcriptional activation of type I IFN genes, which drive the cell in an antiviral state. When sumoylated, translocates to the nucleus and phosphorylates STAT3.

Research Area

Apoptosis_Inhibition; Apoptosis_Mitochondrial; Apoptosis_Overview; Toll_Like; Neurotrophin;

Image Data



Western blot analysis of IRAK expression in HeLa cell lysate.

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