

IRAK1 Antibody (C-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21618b**Specification**

IRAK1 Antibody (C-term) - Product Information

Application	WB,E
Primary Accession	P51617
Reactivity	Human
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Calculated MW	76537

IRAK1 Antibody (C-term) - Additional Information**Gene ID** 3654**Other Names**

Interleukin-1 receptor-associated kinase 1, IRAK-1, IRAK1, IRAK

Target/Specificity

This IRAK1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 608-639 amino acids from the C-terminal region of human IRAK1.

Dilution

WB~~1:2000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

IRAK1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

IRAK1 Antibody (C-term) - Protein Information**Name** IRAK1 ([HGNC:6112](#))**Synonyms** IRAK**Function** 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.

Cellular Location

Cytoplasm. Nucleus. Lipid droplet Note=Translocates to the nucleus when sumoylated. RSAD2/viperin recruits it to the lipid droplet (By similarity).

Tissue Location

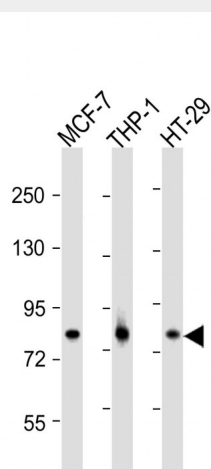
Isoform 1 and isoform 2 are ubiquitously expressed in all tissues examined, with isoform 1 being more strongly expressed than isoform 2.

IRAK1 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

IRAK1 Antibody (C-term) - Images



All lanes : Anti-IRAK1 Antibody (C-term) at 1:2000 dilution Lane 1: MCF-7 whole cell lysates Lane 2: THP-1 whole cell lysates Lane 3: HT-29 whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 77 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

IRAK1 Antibody (C-term) - Background

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IRAK1 Antibody (C-term) - References

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