

**IRAK2 Antibody (C-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP7803b****Specification**

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**IRAK2 Antibody (C-term) - Product Information**

Application	IHC-P, WB,E
Primary Accession	<a href="#">O43187</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	69433
Antigen Region	549-581

**IRAK2 Antibody (C-term) - Additional Information****Gene ID** 3656**Other Names**

Interleukin-1 receptor-associated kinase-like 2, IRAK-2, IRAK2

**Target/Specificity**

This IRAK2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 549-581 amino acids from the C-terminal region of human IRAK2.

**Dilution**

IHC-P~~1:50~100

WB~~1:1000

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**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**

IRAK2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**IRAK2 Antibody (C-term) - Protein Information****Name** IRAK2**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.

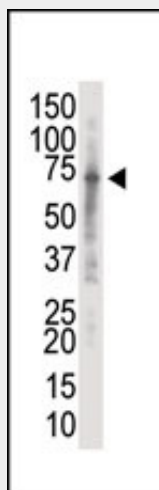
**Tissue Location**

Expressed in spleen, thymus, prostate, lung, liver, skeletal muscle, kidney, pancreas and peripheral blood leukocytes

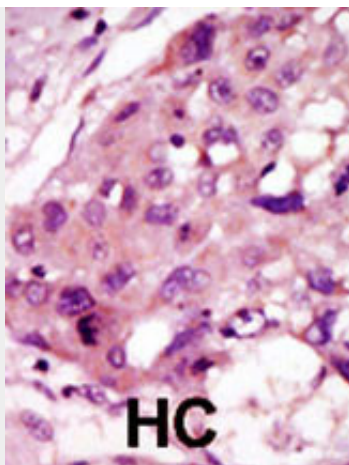
**IRAK2 Antibody (C-term) - Protocols**

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](#)

**IRAK2 Antibody (C-term) - Images**

Western blot analysis of anti-IRAK2 Pab (Cat. #AP7803b) in K562 cell lysate. IRAK2 (Arrow) was detected using purified Pab. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

#### **IRAK2 Antibody (C-term) - Background**

Protein kinases are enzymes that transfer a phosphate group from a phosphate donor, generally the  $\gamma$  phosphate of ATP, onto an acceptor amino acid in a substrate protein. By this basic mechanism, protein kinases mediate most of the signal transduction in eukaryotic cells, regulating cellular metabolism, transcription, cell cycle progression, cytoskeletal rearrangement and cell movement, apoptosis, and differentiation. With more than 500 gene products, the protein kinase family is one of the largest families of proteins in eukaryotes. The family has been classified in 8 major groups based on sequence comparison of their tyrosine (PTK) or serine/threonine (STK) kinase catalytic domains.

The tyrosine-like kinase (TLK) group consists of 40 tyrosine and serine-threonine kinases such as MLK (mixed-lineage kinase), LISK (LIMK/TESK), IRAK (interleukin-1 receptor-associated kinase), Raf, RIPK (receptor-interacting protein kinase), and STRK (activin and TGF-beta receptors) families.

#### **IRAK2 Antibody (C-term) - References**

Muzio, M., et al., Science 278(5343):1612-1615 (1997).