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## anti-IRAK4 antibody (N-Term)

3 Images



Publication



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Overview	
Quantity:	400 μL
Target:	IRAK4
Binding Specificity:	AA 5-36, N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This IRAK4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))
Product Details	
lmmunogen:	This IRAK4 antibody is generated from rabbits immunized with a KLH conjugated synthetic
	peptide between 5-36 amino acids from the N-terminal region of human IRAK4.
Clone:	RB2347
lsotype:	lg Fraction
Predicted Reactivity:	B, M
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.
Target Details	
Target:	IRAK4
Alternative Name:	IRAK4 (IRAK4 Products)

## **Target Details**

Background:	Protein kinases are enzymes that transfer a phosphate group from a phosphate donor,
	generally the g 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 rearrangemer
	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.
Molecular Weight:	51530
NCBI Accession:	NP_001107654, NP_001138728, NP_001138729, NP_001138730, NP_057207
UniProt:	Q9NWZ3
Pathways:	NF-kappaB Signaling, TLR Signaling, Activation of Innate immune Response, Toll-Like
	Receptors Cascades

# Application Details

Application Notes:

Restrictions:

Handling		
Format:	Liquid	
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.	
Preservative:	Sodium azide	
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.	
Storage:	4 °C,-20 °C	
Expiry Date:	6 months	

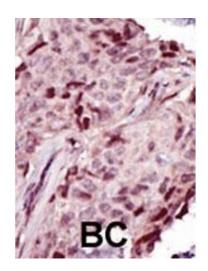
WB: 1:1000. WB: 1:1000. IHC-P: 1:50~100

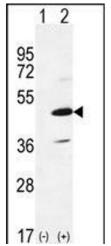
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Product cited in:

Martinez-Outschoorn, Trimmer, Lin, Whitaker-Menezes, Chiavarina, Zhou, Wang, Pavlides, Martinez-Cantarin, Capozza, Witkiewicz, Flomenberg, Howell, Pestell, Caro, Lisanti, Sotgia: "Autophagy in cancer associated fibroblasts promotes tumor cell survival: Role of hypoxia, HIF1 induction and NFkB activation in the tumor stromal microenvironment." in: **Cell cycle** (**Georgetown, Tex.)**, Vol. 9, Issue 17, pp. 3515-33, (2010) (PubMed).

#### **Images**



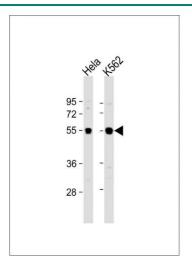


#### **Immunohistochemistry (Paraffin-embedded Sections)**

**Image 1.** 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.

#### **Western Blotting**

**Image 2.** Western blot analysis of IRAK4 (arrow) using rabbit polyclonal IRAK4 Antibody (R20) (ABIN6243238 and ABIN6579012). 293 cell lysates (2 μg/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the IRAK4 gene.



### **Western Blotting**

Image 3. All lanes: Anti-IRAK4 Antibody (N-term) at 1:1000 dilution Lane 1: Hela whole cell lysate Lane 2: K562 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size: 52 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.