

[KD Validated] Anti-IRAK1 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

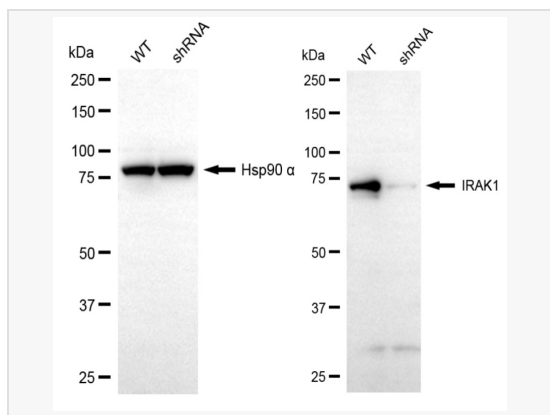
Catalog # R021635

Product Information

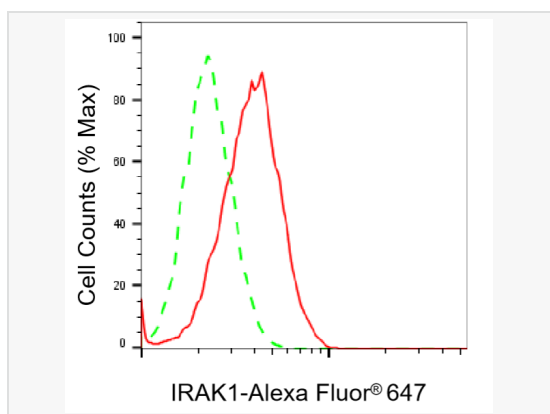
Application	WB, FC, IF (Cell)/ICC
Reactivity	Human
Dilution	WB 1:1,000~1:5,000; FC 1:200~1:2,000; IF 1:100~1:1,000
Host	Rabbit
Clonality	Monoclonal
Clone No.	68Q56K56
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human IRAK
Format	Affinity purified monoclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 12 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	[KD Validated] Anti-IRAK1 Rabbit mAb [68Q56K56] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

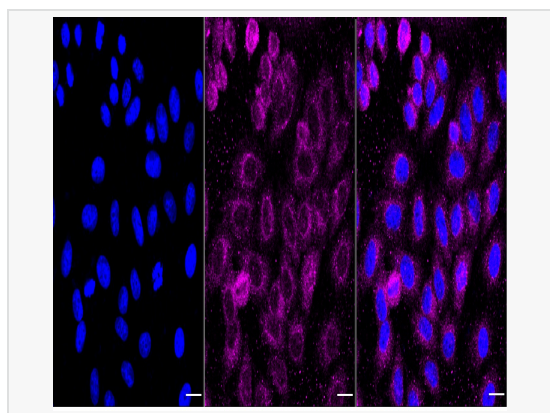
Synonyms	IRAK1; Interleukin 1 Receptor Associated Kinase 1; IRAK; Interleukin-1 Receptor-Associated Kinase 1; EC 2.7.11.1; Pelle; Pelle Homolog; EC 2.7.11; IRAK-1; PELLE.
Calculated MW	Calculated MW: 77 kDa; Observed MW: 74 kDa
Uniprot ID	P51617
Gene ID	3654
Background	This gene encodes the interleukin-1 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]
Tissue Location	Isoform 1 and isoform 2 are ubiquitously expressed in all tissues examined, with isoform 1 being more strongly expressed than isoform 2.



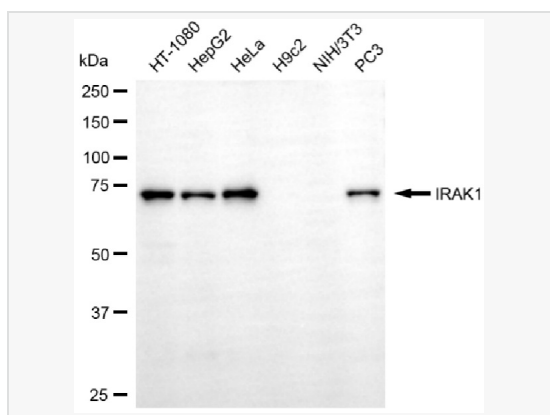
Western blotting analysis using IRAK1 antibody (R021635). IRAK1 expression in wild-type (WT) and IRAK1 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with IRAK1 antibody (R021635, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (1:20,000) respectively. Image was developed using ECL Substrate Kit.



Flow cytometric analysis of IRAK1 expression in HepG2 cells using IRAK1 antibody (R021635, 1:2,000). Green, isotype control; red, IRAK1.



Immunocytochemical staining of HepG2 cells with IRAK1 antibody (R021635, 1:1,000). Nuclei were stained blue with DAPI; IRAK1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.



Western blotting analysis using IRAK1 antibody (R021635). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with IRAK1 antibody (R021635, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (1:20,000) respectively. Image was developed using ECL Substrate Kit.