IRAK4 Recombinant Rabbit Monoclonal Antibody (12H2L6)

Product Details	
Size	100 µg
Species Reactivity	Human
Published Species	Mouse
Host/Isotype	Rabbit / IgG
Expression system	Expi293
Class	Recombinant Monoclonal
Type	Antibody
Clone	12H2L6
Conjugate	Unconjugated
Immunogen	A peptide corresponding to amino acids 41-52 of Q9NWZ3.
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS
Contains	0.09% sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2532271

Applications	Tested Dilution	Publications
Western Blot (WB)	2-3 µg/mL	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	1:10-1:50	-
Immunocytochemistry (ICC/IF)	4-6 µg/mL	-
ChIP assay (ChIP)	1 µL	-
in situ PLA (PLA)	-	1 Publication
In vitro Assay (IV)	-	0 Publication

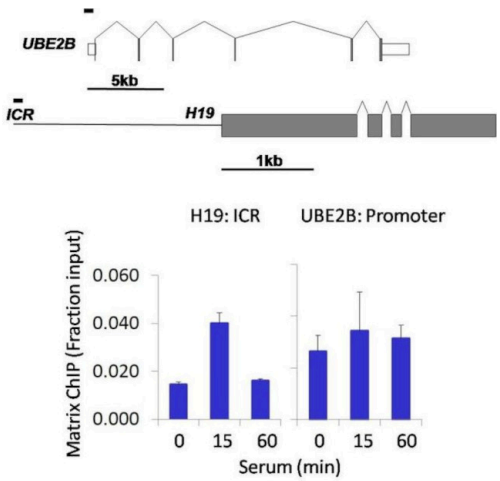
Product Specific Information

This antibody is predicted to react with mouse, rat, primate, ovine, equine, porcine, bovine, canine and Xenopus based on sequence homology.

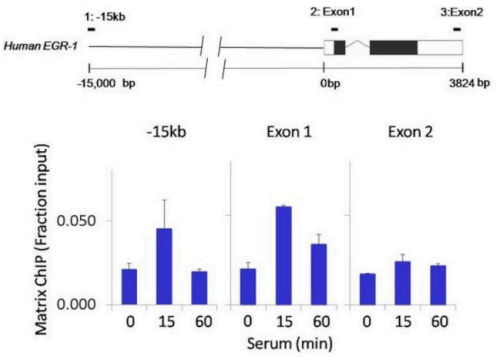
Intact IgG appears on a non-reducing gel as ~150 kDa band and upon reduction generating a ~25 kDa light chain band and a ~50 kDa heavy chain.

Recombinant rabbit monoclonal antibodies are produced using in vitro expression systems. The expression systems are developed by cloning in the specific antibody DNA sequences from immunoreactive rabbits. Then, individual clones are screened to select the best candidates for production. The advantages of using recombinant rabbit monoclonal antibodies include: better specificity and sensitivity, lot-to-lot consistency, animal origin-free formulations, and broader immunoreactivity to diverse targets due to larger rabbit immune repertoire.

Product Images For IRAK4 Recombinant Rabbit Monoclonal Antibody (12H2L6)



IRAK4 Antibody (700026) in ChIP
Chromatin immunoprecipitation analysis of IRAK-4 was performed using cross-linked chromatin from 1 x 10^6 HCT116 human colon carcinoma cells treated with serum for 0, 15, and 60 minutes. Immunoprecipitation was performed using a multiplex microplate Matrix ChIP assay (see reference for Matrix ChIP protocol: http://www.ncbi.nlm.nih.gov/pubmed/22098709) with 1.0 µL/100 µL well volume of an IRAK-4 rabbit monoclonal antibody (Product # 700026). Chromatin aliquots from ~1 x 10^5 cells were used per ChIP pull-down. Quantitative PCR data were done in quadruplicate using 1 µL of eluted DNA in 2 µL SYBR real-time PCR reactions containing primers to amplify the promoter region of human UBE2B, or the imprinting control region (ICR) of the human H19 locus. PCR calibration curves were generated for each primer pair from a dilution series of sheared total genomic DNA. Quantitation of immunoprecipitated chromatin is presented as signal relative to the total amount of input chromatin. Results represent the mean +/- SEM for three experiments. A schematic representation of the human UBE2B and H19 loci are shown above the data where boxes represent exons (grey boxes = translated regions, white boxes = untranslated regions), the zigzag lines represent introns, and the straight line represents upstream sequence. Regions amplified by UBE2B and H19 primers are represented by black bars. Data courtesy of the Innovators Program.



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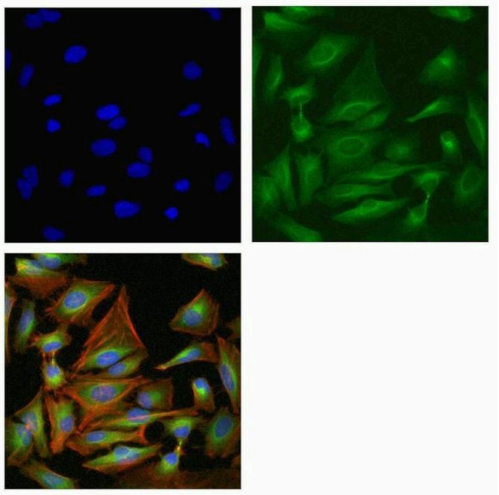

IRAK4 Antibody (700026) in ICC/IF
Immunofluorescent analysis of IRAK-4 in HeLa cells using an IRAK-4 recombinant rabbit monoclonal antibody (Product # 700026) at a dilution of 5 µg /mL followed by detection using an Alexa Fluor 488-conjugated goat anti-rabbit secondary antibody at a dilution of 1:1000. Actin was stained using Alexa Fluor 568 Phalloidin at a dilution of 1:200. Panels: Hoechst only (top left), AF488 signal only (top right) and composite image with Phalloidin (bottom left).

View more figures on thermofisher.cn

2 References

Western Blot (1)

The Journal of experimental medicine

Talin1 controls dendritic cell activation by regulating TLR complex assembly and signaling.

"700026 was used in Western Blotting to investigate the role and mechanism of Talin in regulating skin dendritic cells (DCs) during inflammatory responses."

Authors: Lim TJF,Bunjamin M,Ruedl C,Su IH

Year
2020

Species
Mouse

in situ PLA (1)

Blood cancer discovery

An Autochthonous Mouse Model of Myd88- and BCL2-Driven Diffuse Large B-cell Lymphoma Reveals Actionable Molecular Vulnerabilities.

"700026 was used in Proximity Ligation Assay (PLA) to employ immune phenotyping, RNA-Seq and whole exome sequencing to characterize a Myd88 and Bcl2-driven mouse model of ABC-DLBCL."

Authors: Flümann R,Rehkämper T,Nieper P,Pfeiffer P,Holzem A,Klein S,Bhatia S,Kochanek M,Kisis I,Pelzer BW,Ahlert H,Hauer J,da Palma Guerreiro A,Ryan JA,Reimann M,Riabinska A,Wiederstein J,Krüger M,Deckert M,Altmüller J,Klatt AR,Frenzel LP,Pasqualucci L,Béguelin W,Melnick AM,Sander S,Montesinos-Rongen M,Brunn A,Lohneis P,Büttner R,Kashkar H,Borkhardt A,Letai A,Persigehl T,Peifer M,Schmitt CA,Reinhardt HC,Knittel G

Year
2021

Species
Mouse