IRAK4 Recombinant Rabbit Monoclonal Antibody (12H2L6)

Product Details	
Size	100 µg
Species Reactivity	Human
Host/Isotope	Rabbit / IgG
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	Published
ChIP assay (ChIP)	✓	1 µL	
Immunocytochemistry (ICC)	✓	4-6 µg/mL	
Immunofluorescence (IF)	✓	1-5 µg/mL	
Immunohistochemistry (Paraffin) (IHC (P))	✓	1:10-1:50	
Western Blot (WB)	✓	2-3 µg/mL	

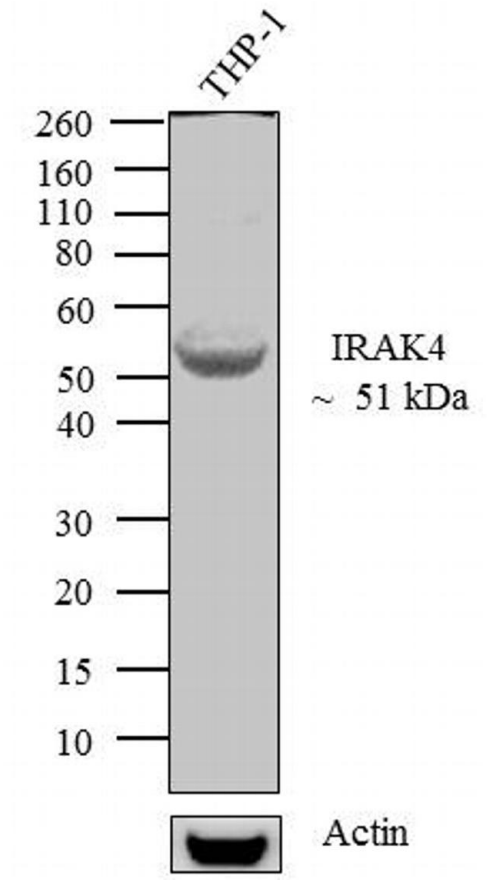
Product Specific Information

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

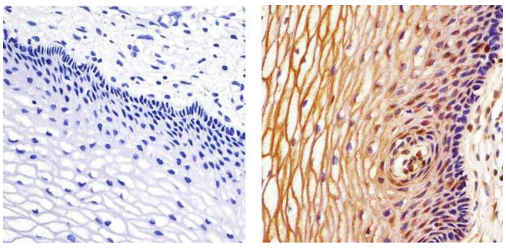
Intact IgG appears on a non-reducing gel as ~150 kDa band and upon reduction generating a ~25 kDa light chain band and a ~50 kDa heavy chain.

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.

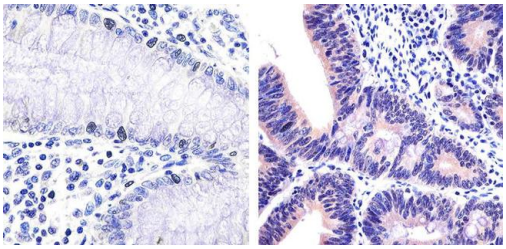
Product Images For IRAK4 Recombinant Rabbit Monoclonal Antibody (12H2L6)



IRAK4 Antibody (700026) in WB
Western blot analysis of IRAK4 was performed by loading 20 µg of THP-1 cell lysate using Novex® NuPAGE® 4-12 % Bis-Tris gel (Product # NP0322BOX), XCell SureLock™ Electrophoresis System (Product # EI0002), Novex® Sharp Pre-Stained Protein Standard (LC5800), and iBlot® 2 Dry Blotting System (IB21001). Proteins were transferred to a nitrocellulose membrane and blocked with 5 % skim milk at 4°C overnight. IRAK4 was detected at ~ 51 kDa using ABfinity™ IRAK4 Rabbit Monoclonal Antibody (Product # 700026) at 2-3 µg/mL in 5 % skim milk for 3 hours at room temperature on a rocking platform. Goat Anti-Rabbit IgG - HRP Secondary Antibody (G21234) at 1:5000 dilution was used and chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).



IRAK4 Antibody (700026) in IHC (P)
Immunohistochemistry analysis of IRAK4 showing staining in the cytoplasm of paraffin-embedded human cervix tissue (right) compared to a negative control without primary antibody (left). To expose target proteins, antigen retrieval was performed using 10mM sodium citrate (pH 6.0), microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H2O2-methanol for 15 min at room temperature, washed with ddH2O and PBS, and then probed with a IRAK4 ABfinity™ Rabbit Monoclonal Antibody (Product # 700026) diluted in 3% BSA-PBS at a dilution of 1:20 overnight at 4°C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.



IRAK4 Antibody (700026) in IHC (P)
Immunohistochemistry analysis of IRAK4 showing staining in the cytoplasm of paraffin-embedded human colon carcinoma tissue (right) compared to a negative control without primary antibody (left). To expose target proteins, antigen retrieval was performed using 10mM sodium citrate (pH 6.0), microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H2O2-methanol for 15 min at room temperature, washed with ddH2O and PBS, and then probed with a IRAK4 ABfinity™ Rabbit Monoclonal Antibody (Product # 700026) diluted in 3% BSA-PBS at a dilution of 1:100 overnight at 4ºC in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.

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