

IRAK4 Polyclonal Antibody

Catalog Number36-5500

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Human, Mouse
Host/Isotope	Rabbit / IgG	Published species	Human
Class	Polyclonal	Tested Applications	
Type	Antibody	Dilution *	
Immunogen	Synthetic peptide derived from the N-terminal region of the human IRAK4 (IL-1 receptor associated kinase 4) protein.	Immunohistochemistry (Paraffin) (IHC (P))	1:10-1:100
		Western Blot (WB)	Assay-dependent
Conjugate	Unconjugated	Immunocytochemistry (ICC/IF)	Assay-dependent
Form	Liquid	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Concentration	0.25 mg/mL		
Purification	Antigen affinity chromatography		
Storage buffer	PBS, pH 7.4		
Contains	0.1% sodium azide		
Storage Conditions	-20°C		

Background/Target Information

IL-1 receptor associated kinases (IRAKs) are serine/threonine kinases involved in signaling via Toll/IL-1 pathways. Overexpression of IRAK-4 activates NF-kappa-B and MAPK pathways. IRAK-4 interacts with and phosphorylates IRAK-1. IRAK-4-deficient animals are completely resistant to the challenge with LPS. Animals and humans lacking IRAK-4 are impaired in their responses to viral and bacterial challenges. Members in IRAK/Pelle family play a central role in IL-1R/TLR mediated inflammatory responses and in innate immunity.

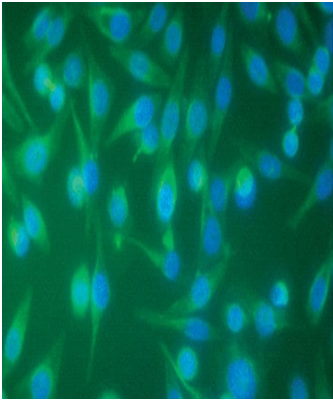
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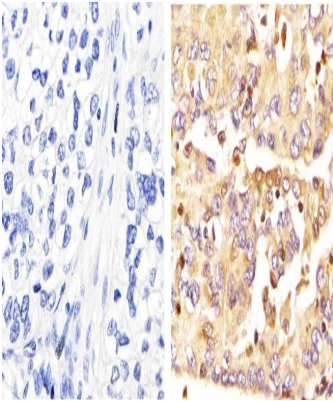
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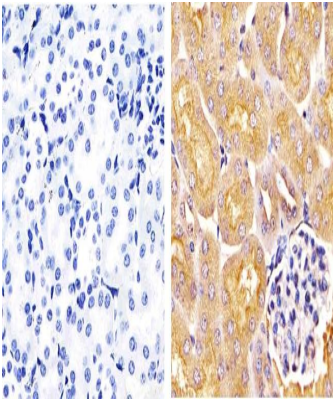
Product Images For IRAK4 Polyclonal Antibody



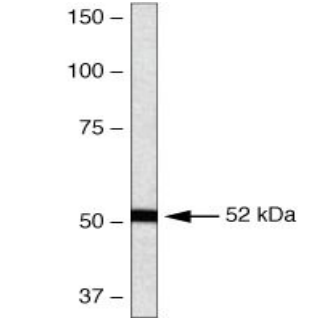
IRAK4 Antibody (36-5500) in ICC/IF
Immunofluorescent staining of HeLa cells using Rb anti-IRAK4 (Product # 36-5500).



IRAK4 Antibody (36-5500) in IHC (P)
Immunohistochemistry analysis of IRAK4 showing staining in the cytoplasm of paraffin-embedded human lung adenocarcinoma 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 polyclonal antibody (Product # 36-5500) diluted in 3% BSA-PBS at a dilution of 1:100 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 (36-5500) in IHC (P)
Immunohistochemistry analysis of IRAK4 showing staining in the cytoplasm of paraffin-embedded mouse kidney 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 polyclonal antibody (Product # 36-5500) 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 (36-5500) in WB
Western blot analysis of HeLa cell lysates using Rb anti-IRAK4 (Product # 36-5500).

Western blot analysis of HeLa cell lysates using Rb anti-IRAK4 (Cat. no. 36-5500).

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