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Datasheet for ABIN753538 anti-IRAK4 antibody (pThr345)

3 Images



Overview

Quantity:	100 µL
Target:	IRAK4
Binding Specificity:	pThr345
Reactivity:	Human, Mouse, Rat, Cow, Pig, Dog
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This IRAK4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	KLH conjugated synthetic phosphopeptide derived from human IRAK4 around the phosphorylation site of Thr345
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Purified by Protein A.
Target Details	
Target:	IRAK4
Alternative Name:	IRAK4 (IRAK4 Products)

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Target Details	
Background:	Synonyms: IPD1, REN64, IRAK-4, NY-REN-64, Interleukin-1 receptor-associated kinase 4, Renal
	carcinoma antigen NY-REN-64, IRAK4
	Background: Serine/threonine-protein kinase that plays a critical role in initiating innate immune
	response against foreign pathogens. Involved in Toll-like receptor (TLR) and IL-1R signaling
	pathways. Is rapidly recruited by MYD88 to the receptor-signaling complex upon TLR activation
	to form the Myddosome together with IRAK2. Phosphorylates initially IRAK1, thus stimulating
	the kinase activity and intensive autophosphorylation of IRAK1. Phosphorylates E3 ubiquitin
	ligases Pellino proteins (PELI1, PELI2 and PELI3) to promote pellino-mediated
	polyubiquitination of IRAK1. Then, the ubiquitin-binding domain of IKBKG/NEMO binds to
	polyubiquitinated IRAK1 bringing together the IRAK1-MAP3K7/TAK1-TRAF6 complex and the
	NEMO-IKKA-IKKB complex. In turn, MAP3K7/TAK1 activates IKKs (CHUK/IKKA and
	IKBKB/IKKB) leading to NF-kappa-B nuclear translocation and activation. Alternatively,
	phosphorylates TIRAP to promote its ubiquitination and subsequent degradation.
	Phosphorylates NCF1 and regulates NADPH oxidase activation after LPS stimulation
	suggesting a similar mechanism during microbial infections.
Molecular Weight:	51kDa
Gene ID:	51135
UniProt:	Q9NWZ3
Pathways:	NF-kappaB Signaling, TLR Signaling, Activation of Innate immune Response, Toll-Like

NF-kappaB Signaling, TLR Signaling, Activation of Innate immune Response, Toll-Like Receptors Cascades

Application Details

Application Notes:	WB(1:100-500)
	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

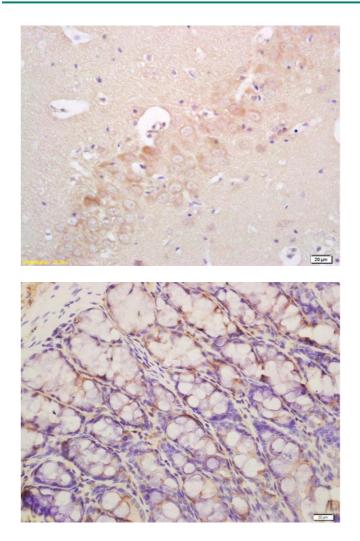
Format:	Liquid
Concentration:	1 μg/μL
Buffer:	Aqueous buffered solution containing 1 % BSA, 50 % glycerol and 0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

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Handling

	should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C for 12 months.
Expiry Date:	12 months

Images



Immunohistochemistry

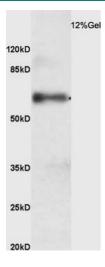
Image 1. Formalin-fixed and paraffin embedded rat brain labeled with Rabbit Anti phospho-IRAK4(Thr345)Polyclonal Antibody, Unconjugated (ABIN753538) at 1:200 followed by conjugation to the secondary antibody and DAB staining

Immunohistochemistry

Image 2. Formalin-fixed and paraffin embedded rat colon labeled with Anti-phospho-IRAK4(Thr345)Polyclonal Antibody, Unconjugated (ABIN753538) at 1:200 followed by conjugation to the secondary antibody and DAB staining

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Images



SDS-PAGE

Image 3. Rat lung lysates probed with Anti-phospho-IRAK4 (Thr345) Polyclonal Antibody (ABIN753538) at 1:200 in 4 °C. Followed by conjugation to secondary antibody at 1:3000 90min in 37 °C. Predicted band 51 kDa and observed band size: 60kDa

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