Datasheet for ABIN742688

anti-IRF3 antibody (pSer396)

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Overview

Quantity:	100 µL
Target:	IRF3
Binding Specificity:	pSer396
Reactivity:	Human, Mouse, Rat, Monkey
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This IRF3 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic phosphopeptide derived from human IRF3 around the phosphorylation site of Ser396
Isotype:	IgG
Cross-Reactivity:	Human, Monkey, Mouse, Rat
Predicted Reactivity:	Dog,Cow,Sheep,Pig
Purification:	Purified by Protein A.

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Target Details

Target:	IRF3
Alternative Name:	IRF3 (IRF3 Products)
Background:	Synonyms: Interferon regulatory factor 3, IRF-3, IRF3 Background: Key transcriptional regulator of type I interferon (IFN)-dependent immune responses which plays a critical role in the innate immune response against DNA and RNA viruses. Regulates the transcription of type I IFN genes (IFN-alpha and IFN-beta) and IFN-stimulated genes (ISG) by binding to an interferon-stimulated response element (ISRE) in their promoters. Acts as a more potent activator of the IFN-beta (IFNB) gene than the IFN-alpha (IFNA) gene and plays a critical role in both the early and late phases of the IFNA/B gene induction. Found in an inactive form in the cytoplasm of uninfected cells and following viral infection, double-stranded RNA (dsRNA), or toll-like receptor (TLR) signaling, is phosphorylated by IKBKE and TBK1 kinases. This induces a conformational change, leading to its dimerization and nuclear localization and association with CREB binding protein (CREBBP) to form dsRNA-activated factor 1 (DRAF1), a complex which activates the transcription of the type I IFN and ISG genes. Can activate distinct gene expression programs in macrophages and can induce significant apoptosis in primary macrophages.
Gene ID:	3661
UniProt:	Q14653
Pathways:	TLR Signaling, Activation of Innate immune Response, Cellular Response to Molecule of Bacterial Origin, Hepatitis C, Toll-Like Receptors Cascades

Application Details

Application Notes:	WB 1:300-5000
	ELISA 1:500-1000
	IHC-P 1:200-400
	IHC-F 1:100-500
	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200
	IF(ICC) 1:50-200
	ICC 1:100-500

Restrictions:	For Research Use only

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Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Publications

Product cited in:

Ando, Matsumoto, Taguchi, Kobayashi: "Poly (I:C) impairs NO donor-induced relaxation by overexposure to NO via the NF-kappa B/iNOS pathway in rat superior mesenteric arteries." in: **Free radical biology & medicine**, Vol. 112, pp. 553-566, (2017) (PubMed).

Le Bel, Gosselin: "Leukotriene B4 Enhances NOD2-Dependent Innate Response against Influenza Virus Infection." in: **PLoS ONE**, Vol. 10, Issue 10, pp. e0139856, (2015) (PubMed).

Ichikawa, Sugiura, Koarai, Minakata, Kikuchi, Morishita, Oka, Kanai, Kawabata, Hiramatsu, Akamatsu, Hirano, Nakanishi, Matsunaga, Yamamoto, Ichinose: "TLR3 activation augments matrix metalloproteinase production through reactive nitrogen species generation in human lung fibroblasts." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 192, Issue 11, pp. 4977-88, (2014) (PubMed).

Menasria, Boivin, Lebel, Piret, Gosselin, Boivin: "Both TRIF and IPS-1 Adaptor Proteins Contribute to the Cerebral Innate Immune Response against Herpes Simplex Virus 1 Infection." in: **Journal of virology**, Vol. 87, Issue 13, pp. 7301-8, (2013) (PubMed).

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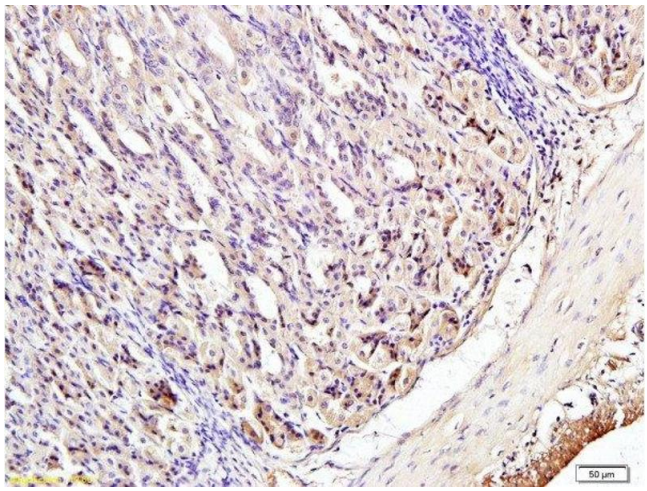
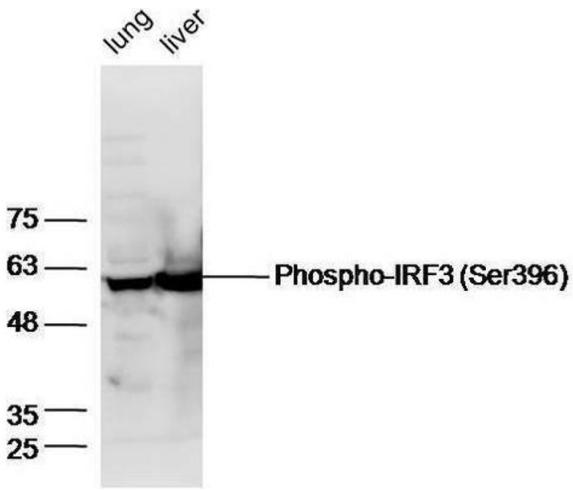


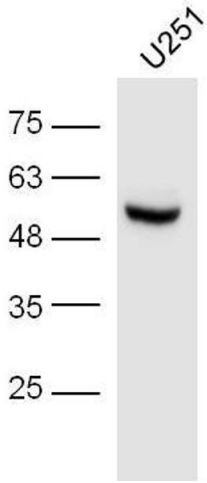
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Formalin-fixed and paraffin embedded mouse stomach tissue labeled with Anti-Phospho-IRF3 (Ser396) Polyclonal Antibody, Unconjugated at 1:200 followed by conjugation to the secondary antibody and DAB staining



Western Blotting

Image 2. Mouse liver lysates probed with Anti-IRF3 (Ser396) Polyclonal Antibody, Unconjugated at 1:5000 for 90 min at 37˚C.



Western Blotting

Image 3. U251 lysates probed with IRF3 (Ser396) Polyclonal Antibody, unconjugated at 1:300 overnight at 4°C followed by a conjugated secondary antibody at 1:10000 for 60 minutes at 37°C.

Please check the product details page for more images. Overall 5 images are available for ABIN742688.