

Datasheet for ABIN742703

anti-IRF7 antibody (pSer471, pSer472)

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Overview

Quantity:	100 µL
Target:	IRF7
Binding Specificity:	pSer471, pSer472
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This IRF7 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	KLH conjugated synthetic phosphopeptide derived from human IRF7 around the phosphorylation site of Ser471/472
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Predicted Reactivity:	Cow,Pig,Horse
Purification:	Purified by Protein A.

Target Details

Target:	IRF7
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Target Details

Alternative Name: IRF7 + ([IRF7 Products](#))

Background: Synonyms: IRF7A, IRF7B, IRF7C, IRF7H, IRF-7H, Interferon regulatory factor 7, IRF-7, IRF7
Background: Key transcriptional regulator of type I interferon (IFN)-dependent immune responses and 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. Can efficiently activate both the IFN-beta (IFNB) and the IFN-alpha (IFNA) genes and mediate their induction via both the virus-activated, MyD88-independent pathway and the TLR-activated, MyD88-dependent pathway. Required during both the early and late phases of the IFN gene induction but is more critical for the late than for the early phase. Exists in an inactive form in the cytoplasm of uninfected cells and following viral infection, double-stranded RNA (dsRNA), or toll-like receptor (TLR) signaling, becomes phosphorylated by IKBKE and TBK1 kinases. This induces a conformational change, leading to its dimerization and nuclear localization where along with other coactivators it can activate transcription of the type I IFN and ISG genes. Can also play a role in regulating adaptive immune responses by inducing PSMB9/LMP2 expression, either directly or through induction of IRF1. Binds to the Q promoter (Qp) of EBV nuclear antigen 1 a (EBNA1) and may play a role in the regulation of EBV latency. Can activate distinct gene expression programs in macrophages and regulate the anti-tumor properties of primary macrophages.

Gene ID: 3665

UniProt: [Q92985](#)

Pathways: [TLR Signaling](#), [Activation of Innate immune Response](#), [Hepatitis C](#), [Toll-Like Receptors Cascades](#), [Autophagy](#)

Application Details

Application Notes: WB 1:300-5000
ELISA 1:500-1000
FCM 1:20-100
IHC-P 1:200-400

Restrictions: For Research Use only

Handling

Format: Liquid

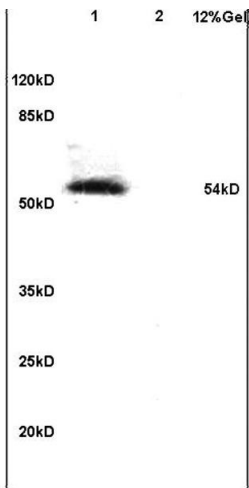
Handling

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

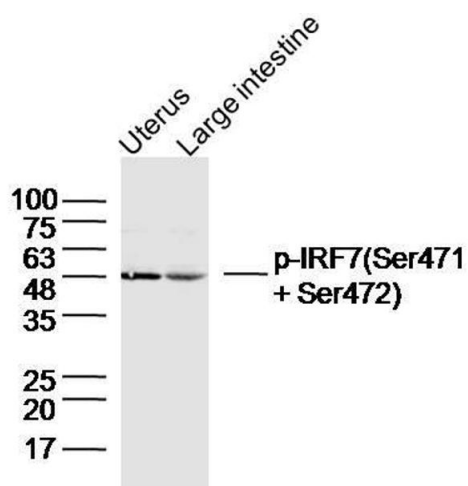
Product cited in:	<p>Le Bel, Gosselin: "Leukotriene B4 Enhances NOD2-Dependent Innate Response against Influenza Virus Infection." in: PLoS ONE, Vol. 10, Issue 10, pp. e0139856, (2015) (PubMed).</p> <p>Han, Choi, Uyangaa, Kim, Kim, Kim, Kim, Eo: "Distinct dictation of Japanese encephalitis virus-induced neuroinflammation and lethality via triggering TLR3 and TLR4 signal pathways." in: PLoS pathogens, Vol. 10, Issue 9, pp. e1004319, (2014) (PubMed).</p> <p>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).</p>
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Images



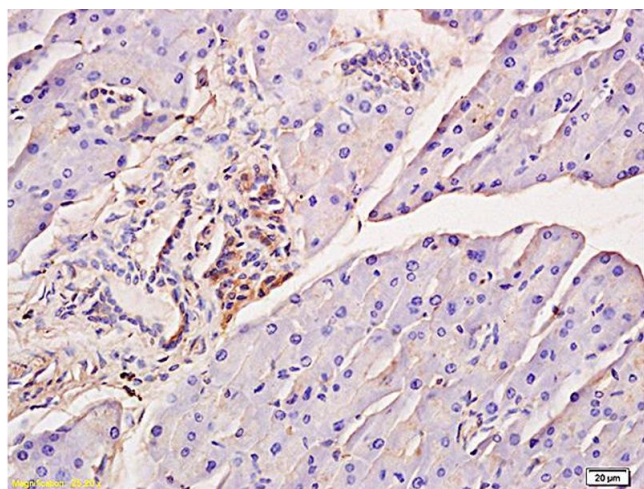
SDS-PAGE

Image 1. Lane 1: mouse embryo lysates Lane 2: mouse brain lysates probed with Anti Phospho-IRF7 (Ser471/472) Polyclonal Antibody, Unconjugated (ABIN742703) at 1:200 in 4 °C. Followed by conjugation to secondary antibody at 1:3000 90min in 37 °C. Predicted band 54kD. Observed band size: 54kD



Western Blotting

Image 2. Lane 1: Mouse uterus lysates, Lane 2: Mouse large intestine lysates probed with IRF7 (Ser471 + Ser472) Polyclonal Antibody, unconjugated at 1:300 overnight at 4°C followed by a conjugated secondary antibody for 60 minutes at 37°C.



Immunohistochemistry

Image 3. Formalin-fixed and paraffin embedded mouse pancreas tissue labeled with Anti-Phospho-IRF7 (Ser471/472) Polyclonal Antibody, Unconjugated (ABIN742703) at 1:200 followed by conjugation to the secondary antibody and DAB staining

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN742703.