

Datasheet for 600-401-CA4**IRF7 Antibody****Overview**

Description:	Anti-IRF7 (RABBIT) Antibody - 600-401-CA4
Item No.:	600-401-CA4
Size:	100 µg
Applications:	ELISA, IHC, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	Interferons (IFNs) are involved in a multitude of immune interactions during viral infections and play a major role in both the induction and regulation of innate and adaptive antiviral mechanisms. During infection, host-virus interactions signal downstream molecules such as transcription factors such as IFN regulatory factor-3 (IRF3) which can act to stimulate transcription of IFN-alpha/beta genes. IRF7 has been shown to play a role in the transcriptional activation of virus-inducible cellular genes, including interferon beta chain genes. IRF7 play a major role in the innate immune pathway, interacting with the Toll-like receptor (TLR) adaptor proteins MyD88 and Tirp/TRAM and functioning as an intermediate TLR4 and TLR9 signaling. There are at least four differentially spliced isoforms of IRF7, although their function has not been clearly established.
Synonyms:	IRF7 Antibody, IRF7A, IRF7B, IRF7C, IRF7H, IRF-7H, Interferon regulatory factor 7, IRF-7
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	IRF7
Reactivity:	Human
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-IRF7 antibody was prepared from whole rabbit serum produced by repeated immunizations with a peptide corresponding to 14 amino acids near the internal region of human IRF7.
Purity/Specificity:	Anti-IRF7 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with IRF7 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q92985 • GeneID - 3665 • NCBI - Q92985

Application Details

Tested Applications:	ELISA, IHC, WB
Application Note:	Anti-IRF7 Antibody has been tested for use in ELISA, Western Blotting, and Immunohistochemistry. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 54 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5000 - 1:10000
IHC:	5 µg/mL
WB:	0.5-1 µg/mL

Formulation

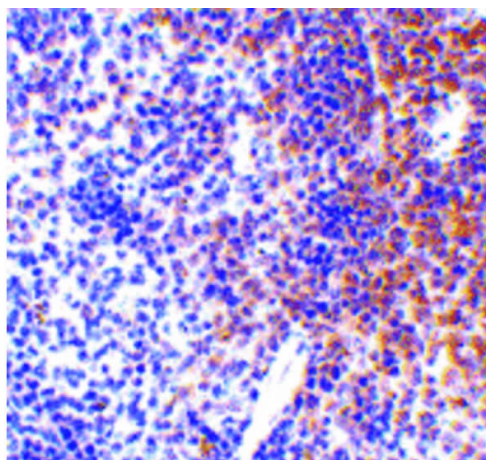
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

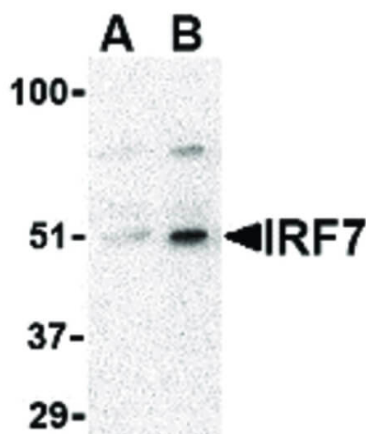
Expiration: Expiration date is one (1) year from date of receipt.

Images



Immunohistochemistry

Immunohistochemistry of IRF7 antibody. Tissue: mouse spleen tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: IRF7 antibody at 5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: IRF7 is nuclear and cytoplasmic. Staining: IRF7 is stained with toluidine blue.



Western Blot

Western Blot of IRF7 antibody in 293 whole cell lysate. Lane A: IRF7 antibody at 0.5 µg/mL. Lane B: IRF7 antibody at 1 µg/mL. Load: 35 µg per lane. Primary antibody: IRF7 antibody at designated concentrations for overnight at 4°C. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 54 kDa, 51 kDa for IRF7. Other band(s): IRF7 splice variants and isoforms.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.