

Rabbit IRF7 Polyclonal Antibody | anti-IRF7 antibody

IRF7 Antibody

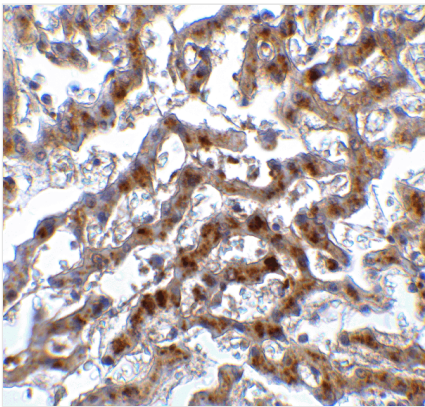
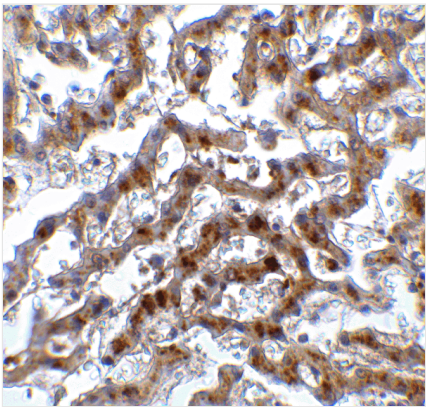
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA11032	Rabbit	Human, Mouse, Rat	ELISA, Western Blot, Immunohistochemistry

PRODUCT SYNONYMS

IRF7; Polyclonal Antibody; IRF7 Antibody; interferon regulatory factor 7; IRF7 Antibody: IRF7A; IRF7B; IRF7C; IRF7H; IRF-7H; Interferon regulatory factor 7; IRF-7; anti-IRF7 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Several isoforms of IRF7 are known to exist.
Purity/Purification	IRF7 Antibody is Protein A purified.
Form/Format	Liquid IRF7 Antibody is supplied in PBS containing 0.02% sodium azide.
Concentration	1mg/mL (varies by lot)
Applicable Applications for anti-IRF7 antibody	ELISA, WB (Western Blot), IHC (Immunohistochemistry)
Application Notes	WB: 0.5-1ug/mL IF: 20ug/mL IHC: 2-5ug/mL. Antibody validated: Western Blot in human, mouse and rat samples. Immunofluorescence in mouse samples. Immunohistochemistry in human, mouse and rat samples. All other applications and species not yet tested.
Source	Human
Immunogen	Anti-IRF7 antibody (8991) was raised against a peptide corresponding to 17 amino acids near the center of human IRF7. The immunogen is located within amino acids 200-230 of IRF7.
Isoforms	Human IRF7 has 4 isoforms, including isoform A (503aa, 54kD), isoform B (474aa, 52kD), isoform C (164aa, 18kD) and isoform D (516aa, 56kD). Mouse IRF7 has one isoform (457aa, 51kD) and Rat IRF7 also has one isoform (456aa, 51kD). 8991 can detect human isoforms and mouse, and possibly can detect rat.
Conjugation	Unconjugated
Validation Note	KO Validation (Figure 1): Anti-IRF7 antibodies (8991) specificity was further verified by IRF7 specific knockout. IRF7 was disrupted in IRF7 knockout A549 cells as compared to that in control wild type cells.
Preparation and Storage	IRF7 antibody can be stored at 4 degree C for three months and -20 degree C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

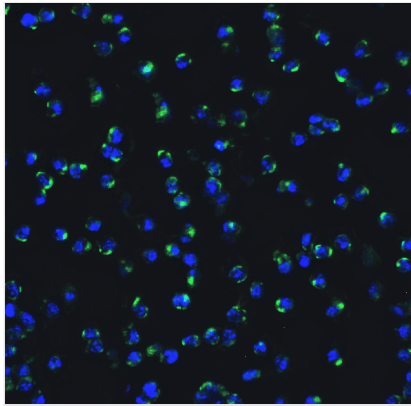
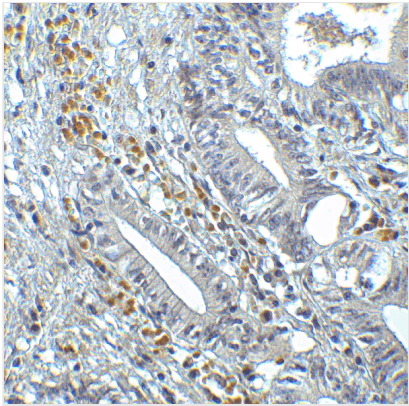


IHC (Immunohistochemistry)

Figure 9 Immunohistochemistry Validation of IRF7 in Human Liver Tissue
Immunohistochemical analysis of paraffin-embedded human liver tissue using anti-IRF7 antibody (8991) at 2 μg/ml. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4˚C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.

IHC (Immunohistochemistry)

Figure 8 Immunohistochemistry Validation of IRF7 in Human Pancreas Tissue
Immunohistochemical analysis of paraffin-embedded human pancreas tissue using anti-IRF7 antibody (8991) at 2 μg/ml. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4˚C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.

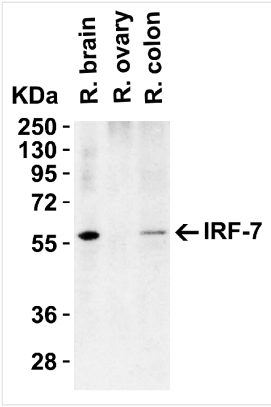


IHC (Immunohistochemistry)

Figure 7 Immunohistochemistry Validation of IRF7 in Human Colon Tissue
Immunohistochemical analysis of paraffin-embedded human colon tissue using anti-IRF7 antibody (8991) at 2 μg/ml. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4˚C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.

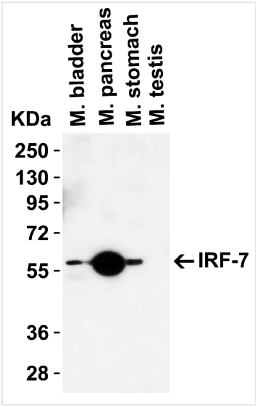
IF (Immunofluorescence)

Figure 6 Immunofluorescence Validation of IRF7 in Mouse Raw264.7 Cells
Immunofluorescent analysis of 4% paraformaldehyde-fixed Raw264.7 cells labeling IRF7 with 8991 at 20 μg/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (green) and DAPI staining (blue).



WB (Western Blot)

Figure 5 Western Blot Validation in Rat Tissues
Loading: 15 μg of lysates per lane. Antibodies: IRF7, 8991 (1 μg/mL), 1h incubation at RT in 5% NFDm/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



WB (Western Blot)

Figure 4 Western Blot Validation in Mouse Tissues
Loading: 15 μg of lysates per lane. Antibodies: IRF7, 8991 (1 μg/mL), 1h incubation at RT in 5% NFDm/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.

ADDITIONAL INFORMATION

Related Product Information for anti-IRF7 antibody	IRF7 Antibody: 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.
Product Categories/Family for anti-IRF7 antibody	Innate Immunity
References	Malmgaard. J. Interferon & Cyto. Res. 2004; 24:439-54. Sato et al. Immunity 2000; 13:539-48. Fitzgerald et al. J. Exp. Med. 2003; 198:1043-55. Honda et al. Proc. Natl. Acad. Sci. USA 2004; 101:15416-21.

NCBI AND UNIPROT INFORMATION

NCBI GI #	116242593
NCBI GeneID	3665
NCBI Accession #	NP_001563.2
NCBI GenBank Nucleotide #	NM_001572.3
UniProt Accession #	Q92985 ; O00331 ; O00332 ; O00333 ; O75924 ; Q9UE79 ; B9EGL3
Molecular Weight	51-56kDa
NCBI Official Full Name	interferon regulatory factor 7 isoform a
NCBI Official Synonym Full Names	interferon regulatory factor 7
NCBI Official Symbol	IRF7
NCBI Official Synonym Symbols	IRF7A; IRF7B; IRF7C; IRF7H; IRF-7H
NCBI Protein Information	interferon regulatory factor 7; IRF-7; interferon regulatory factor-7H
UniProt Protein Name	Interferon regulatory factor 7
UniProt Gene Name	IRF7
UniProt Synonym Gene Names	IRF-7
UniProt Entry Name	IRF7_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/irf7-antibody-western-blot-immunohistochemistry-elisa/11032>