

## Anti-IRF7 Antibody (8B964)

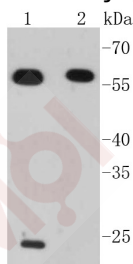
### Product Details

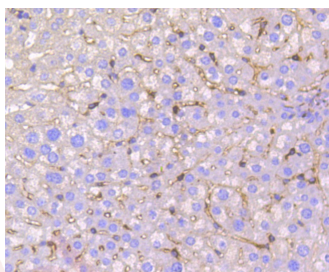
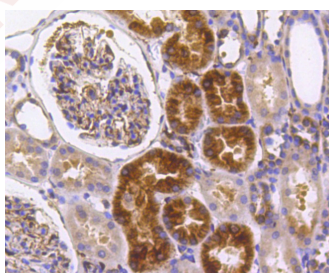
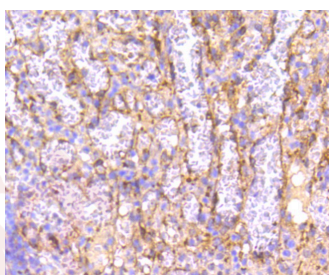
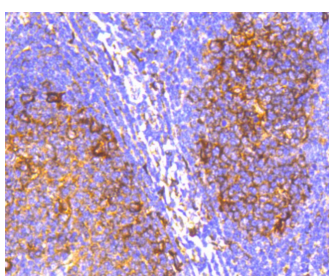
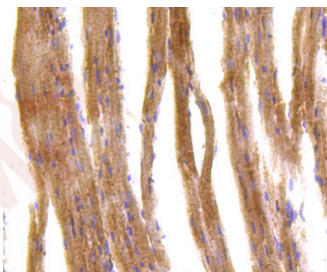
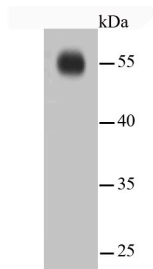
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat,zebrafish
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 54 kDa.
Clone:	8B964
Purification:	ProA affinity purified

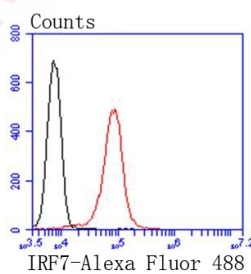
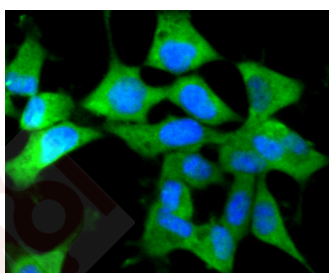
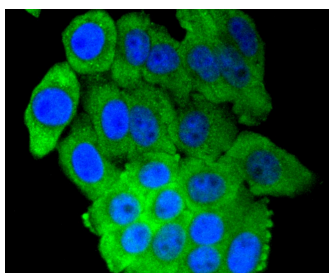
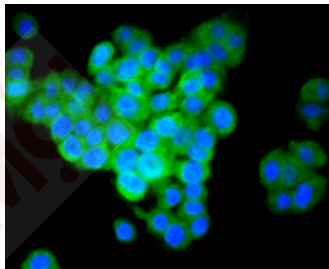
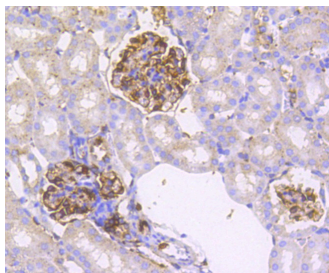
### Applications

- Western blot analysis of IRF7 on different lysates using anti-IRF7 antibody at 1/1,000 dilution. Positive control: Lane 1: Jurkat, Lane 2: Raji.
- Western blot analysis of IRF7 on hybrid fish (crucian-carp) brain tissue lysate using anti-IRF7 antibody at 1/500 dilution.
- Immunohistochemical analysis of paraffin-embedded mouse heart tissue using anti-IRF7 antibody. Counter stained with hematoxylin.
- Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-IRF7 antibody. Counter stained with hematoxylin.
- Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-IRF7 antibody. Counter stained with hematoxylin.
- Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-IRF7 antibody. Counter stained with hematoxylin.
- Immunohistochemical analysis of paraffin-embedded mouse liver tissue using anti-IRF7 antibody. Counter stained with hematoxylin.
- Immunohistochemical analysis of paraffin-embedded mouse kidney tissue using anti-IRF7 antibody. Counter stained with hematoxylin.
- ICC staining IRF7 in PC-12 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
- ICC staining IRF7 in HepG2 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
- ICC staining IRF7 in 293 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
- Flow cytometric analysis of Jurkat cells with IRF7 antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.

Verified Activity:







Application: FCM, ICC/IF, IHC, IP, WB

Recommended WB: 1:1000-2000; IHC: 1:50-200; ICC/IF: 1:100-500; FCM: 1:50-100

### Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

### Antigen Details

Immunogen:	Recombinant Protein
Uniprot ID:	Q92985
Synonyms:	Interferon regulatory factor 7H;IRF7;IRF7A;IRF-7;Interferon regulatory factor 7;IRF 7A;IRF 7H;IRF7H

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### Research Background

Interferon regulatory factor-1 (IRF-1) and IRF-2 have been identified as novel DNA-binding factors that function as regulators of both type I interferon (interferon- $\alpha$  and  $\beta$ ) and interferon-inducible genes. The two factors are structurally related, particularly in their N-terminal regions, which confer DNA binding specificity. In addition, both bind to the same sequence within the promoters of interferon- $\alpha$  and interferon- $\beta$  genes. IRF-1 functions as an activator of interferon transcription, while IRF-2 binds to the same cis elements and represses IRF-1 action. IRF-1 and IRF-2 have been reported to act in a mutually antagonistic manner in regulating cell growth; overexpression of the repressor IRF-2 leads to cell transformation while concomitant overexpression of IRF-1 causes reversion. IRF-1 and IRF-2 are members of a larger family of DNA binding proteins that includes IRF-3, IRF-4, IRF-5, IRF-6, IRF-7 and IFN consensus sequence-binding protein (ICSBP).

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