

**Anti-IRF7 Rabbit Monoclonal Antibody**  
**Catalog # ABO13406****Specification**

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**Anti-IRF7 Rabbit Monoclonal Antibody - Product Information**

Application	WB, IHC, IF, ICC, IP, FC
Primary Accession	<a href="#">Q92985</a>
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid

**Description**

Anti-IRF7 Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF, IP, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat.

**Anti-IRF7 Rabbit Monoclonal Antibody - Additional Information**

**Gene ID** 3665

**Other Names**

Interferon regulatory factor 7, IRF-7, IRF7

**Calculated MW**

54278 MW KDa

**Application Details**

WB 1:500-1:2000<br>IHC 1:50-1:200<br>ICC/IF 1:50-1:200<br>IP 1:50<br>FC 1:50

**Subcellular Localization**

Nucleus. Cytoplasm. The phosphorylated and active form accumulates selectively in the nucleus.

**Tissue Specificity**

Expressed predominantly in spleen, thymus and peripheral blood leukocytes.

**Contents**

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

**Immunogen**

A synthesized peptide derived from human IRF7

**Purification**

Affinity-chromatography

**Storage**

**Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.**

## Anti-IRF7 Rabbit Monoclonal Antibody - Protein Information

### Name IRF7

### Function

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 (PubMed:<a href="http://www.uniprot.org/citations/28342865" target="\_blank">28342865</a>, PubMed:<a href="http://www.uniprot.org/citations/28768858" target="\_blank">28768858</a>). 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 (PubMed:<a href="http://www.uniprot.org/citations/17574024" target="\_blank">17574024</a>, PubMed:<a href="http://www.uniprot.org/citations/32972995" target="\_blank">32972995</a>). 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. Induces transcription of ubiquitin hydrolase USP25 mRNA in response to lipopolysaccharide (LPS) or viral infection in a type I IFN-dependent manner (By similarity). 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 (By similarity) (PubMed:<a href="http://www.uniprot.org/citations/11073981" target="\_blank">11073981</a>, PubMed:<a href="http://www.uniprot.org/citations/12374802" target="\_blank">12374802</a>, PubMed:<a href="http://www.uniprot.org/citations/15361868" target="\_blank">15361868</a>, PubMed:<a href="http://www.uniprot.org/citations/17404045" target="\_blank">17404045</a>).

### Cellular Location

Nucleus. Cytoplasm. Note=The phosphorylated and active form accumulates selectively in the nucleus

### Tissue Location

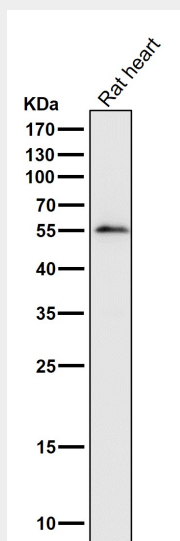
Expressed predominantly in spleen, thymus and peripheral blood leukocytes

## Anti-IRF7 Rabbit Monoclonal Antibody - Protocols

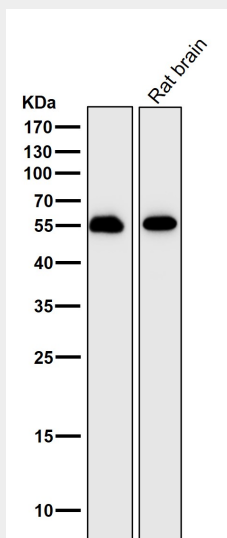
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

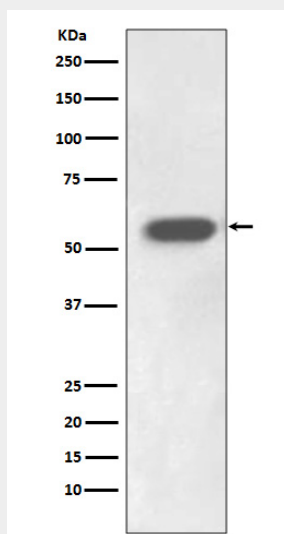
## Anti-IRF7 Rabbit Monoclonal Antibody - Images



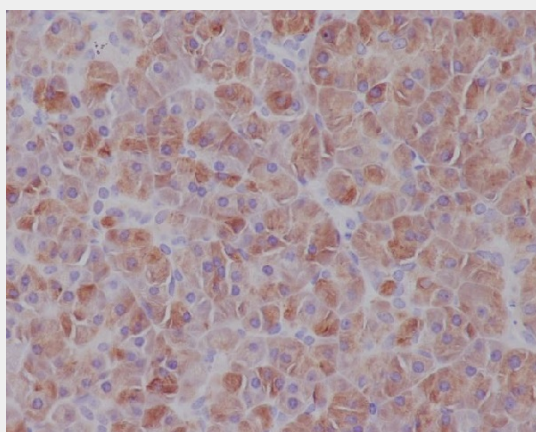
All lanes use the Antibody at 1:1K dilution for 1 hour at room temperature.



All lanes use the Antibody at 1:1K dilution for 1 hour at room temperature.



Western blot analysis of IRF7 expression in Jurkat cell lysate.



Immunohistochemical analysis of paraffin-embedded human pancreas, using IRF7 Antibody.