

Interferon regulatory factor 7 (IN)/IRF7. Rabbit Polyclonal Antibody , Human

IRF7 (IN): Interferon regulatory factor 7

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- α/β genes. IRF7 has been shown to play a role in the transcriptional activation of virus-inducible cellular genes, including interferon β 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 (3,4). There are at least four differentially spliced isoforms of IRF7, although their function has not been clearly established.

ORDERING INFORMATION

CATALOG NUMBER
X1799P

SIZE
100 μ g

FORM
Unconjugated

HOST/CLONE
Rabbit

FORMULATION
Provided as solution in phosphate buffered saline with 0.02% sodium azide

CONCENTRATION
0.5 MG/ML

ISOTYPE
IgG

APPLICATIONS
Western Blot

IMMUNOGEN

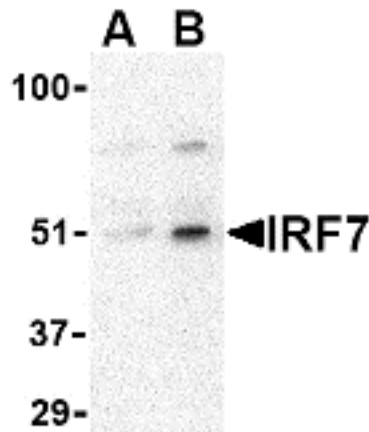
Rabbit polyclonal IRF7 antibody was raised against a peptide corresponding to 14 amino acids near the center of human IRF7

SPECIES REACTIVITY

Human

Legend:

Western blot analysis of IRF7 in 293 whole cell lysate with IRF7 antibody at (A) 0.5 and (B) 1 μ g/ml.



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POSITIVE CONTROL/TISSUE EXPRESSION

Expressed predominantly in spleen, thymus and peripheral blood leukocytes, IRF7 is located in the nucleus and cytoplasm. The phosphorylated and active form accumulates selectively in the nucleus.

COMMENTS

IRF7 antibody can be used for detection of IRF7 by Western blot at 1 - 2 ug/ml.

SHIP CONDITIONS

Ship at ambient temperature, freeze upon arrival

STORAGE CUSTOMER

Product should be stored at -20°C. Aliquot to avoid freeze/thaw cycles

STABILITY

Products are stable for one year from purchase when stored properly

REFERENCES

- 1) Malmgaard L. Induction and regulation of IFNs during viral infections. J. Interferon & Cyto. Res. 2004; 24:439-54.
- 2) Sato M, Suemori H, Hata N, et al. Distinct and essential roles of transcription factors IRF-3 and IRF-7 in response to viruses for IFN-alpha/beta gene induction. Immunity 2000; 13:539-48.
- 3) Fitzgerald KA, Rowe DC, Barnes BJ, et al. LPS-TLR4 signaling to IRF-3/7 and NF-kappaB involves the toll adaptors TRAM and TRIF.
- 4) J. Exp. Med. 2003; 198:1043-55. Honda K, Yanai H, Mizutani T, et al. Role of a transductional-transcriptional processor complex involving MyD88 and IRF-7 in Toll-like receptor signaling. Proc. Natl. Acad. Sci. USA 2004; 101:15416-21.

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