

35-1849: Polyclonal Antibody to IRF-3 (Ab-396)

Clonality :	Polyclonal
Application :	WB
Reactivity :	Human
Gene :	IRF3
Gene ID :	3661
Uniprot ID :	Q14653
Format :	Purified
Alternative Name :	interferon regulatory factor 3
Isotype :	Rabbit IgG
Immunogen Information :	Peptide sequence around aa.394-398(H-I-S-N-S) derived from Human IRF-3.

Description

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. 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. Acts as a more potent activator of the IFN-beta (IFNB) gene than the IFN-alpha (IFNA) gene and plays a critical role in both the early and late phases of the IFNA/B gene induction. Found 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 and association with CREB binding protein (CREBBP) to form dsRNA-activated factor 1 (DRAF1), a complex which activates the transcription of the type I IFN and ISG genes. Can activate distinct gene expression programs in macrophages and can induce significant apoptosis in primary macrophages.

Product Info

Amount :	50 µl / 100 µl
Content :	1.0 mg/ml, 100 µl
Storage condition :	Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

Predicted MW: 45-55kd, Western blotting: 1: 500~1: 1000

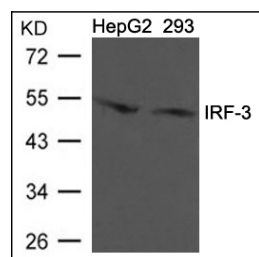


Figure 1: Western blot analysis of extracts from HepG2 and 293 cells using IRF-3 (Ab-396) Antibody 35-1849 .