Data Sheet (Cat.No.TMAH-00912)

TargetMol

Anti-Phospho-IRF3 (Ser386) Antibody (7A218)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	7A218
Purification:	Affinity-chromatography

Applications

Verified Activity:	Western Blot -Positive WB detected in Hela whole cell lysate(treated with Calyculin A or not) -All lanes Phospho-IRF3 antibody at 1.03μg/ml -Secondary: Goat polyclonal to rabbit IgG at 1/50000 dilution -Predicted band size: 47 KDa -Observed band size: 47 KDa
Application:	ELISA, WB
Recommended	WB:1:500-1:5000.

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:	A synthetic peptide: Human Phospho-IRF3 (S386)
Antigen Species:	Human
Gene ID:	3661
Uniprot ID:	Q14653
Synonyms:	p-IRF3 (Ser386);p-IRF3 (S386);Interferon regulatory factor 3;IRF 3;MGC94729;IRF3 (p-S386);IRF3 (p-Ser386);IIAE7;Phospho-IRF3 (S386)
Biology Area:	Immunology

Research Background

Key transcriptional regulator of type I interferon (IFN)-dependent immune responses which 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, is 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. In response to Sendai virus infection, is recruited by TOMM70:HSP90AA1 to mitochondrion and forms an apoptosis complex TOMM70:HSP90AA1:IRF3:BAX inducing apoptosis. Key transcription factor regulating the IFN response during SARS-CoV-2 infection.

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