

## IRF-3 Polyclonal Antibody

<b>Catalog No :</b>	YT2396
<b>Reactivity :</b>	Human;Rat;Mouse;Pig
<b>Applications :</b>	WB;IHC;IF;ELISA
<b>Target :</b>	IRF-3
<b>Fields :</b>	>>Toll-like receptor signaling pathway;>>NOD-like receptor signaling pathway;>>RIG-I-like receptor signaling pathway;>>Cytosolic DNA-sensing pathway;>>Alcoholic liver disease;>>Shigellosis;>>Pertussis;>>Yersinia infection;>>Hepatitis C;>>Hepatitis B;>>Measles;>>Human cytomegalovirus infection;>>Influenza A;>>Human papillomavirus infection;>>Kaposi sarcoma-associated herpesvirus infection;>>Herpes simplex virus 1 infection;>>Epstein-Barr virus infection;>>Human immunodeficiency virus 1 infection;>>Coronavirus disease - COVID-19;>>Viral carcinogenesis;>>Lipid and atherosclerosis
<b>Gene Name :</b>	IRF3
<b>Protein Name :</b>	Interferon regulatory factor 3
<b>Human Gene Id :</b>	3661
<b>Human Swiss Prot No :</b>	Q14653
<b>Mouse Swiss Prot No :</b>	P70671
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human IRF3. AA range:351-400
<b>Specificity :</b>	IRF-3 Polyclonal Antibody detects endogenous levels of IRF-3 protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:40000. Not yet tested in other applications.

<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Observed Band :</b>	48-55kd
<b>Cell Pathway :</b>	Toll_Like;RIG-I-like receptor;Cytosolic DNA-sensing pathway;
<b>Background :</b>	This gene encodes a member of the interferon regulatory transcription factor (IRF) family. The encoded protein is found in an inactive cytoplasmic form that upon serine/threonine phosphorylation forms a complex with CREBBP. This complex translocates to the nucleus and activates the transcription of interferons alpha and beta, as well as other interferon-induced genes. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Nov 2011],
<b>Function :</b>	function:Mediates interferon-stimulated response element (ISRE) promoter activation. Functions as a molecular switch for antiviral activity. DsRNA generated during the course of a viral infection leads to IRF3 phosphorylation on the C-terminal serine/threonine cluster. This induces a conformational change, leading to its dimerization, nuclear localization and association with CREB binding protein (CREBBP) to form dsRNA-activated factor 1 (DRAF1), a complex which activates the transcription of genes under the control of ISRE. The complex binds to the IE and PRDIII regions on the IFN-alpha and IFN-beta promoters respectively. IRF-3 does not have any transcription activation domains.,PTM:Constitutively phosphorylated on many serines residues. C-terminal serine/threonine cluster is phosphorylated in response of induction by IKBKE and TBK1. Ser-385 and Ser-386 may be specifically phosphoryla
<b>Subcellular Location :</b>	Cytoplasm . Nucleus . Mitochondrion . Shuttles between cytoplasmic and nuclear compartments, with export being the prevailing effect (PubMed:10805757). When activated, IRF3 interaction with CREBBP prevents its export to the cytoplasm (PubMed:10805757). Recruited to mitochondria via TOMM70:HSP90AA1 upon Sendai virus infection (PubMed:25609812). .
<b>Expression :</b>	Expressed constitutively in a variety of tissues.
<b>Sort :</b>	8673
<b>No4 :</b>	1
<b>Host :</b>	Rabbit

**Modifications :** Unmodified

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