IRF3 (Phospho Ser396) (PT0875R) PT™ Rabbit mAb

CatalogNo: YM8644 Recombinant

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse

Applications
- WB,ICC/IF,ELISA

MW
- 47kD (Calculated)
60kD (Observed)

Isotype
- IgG, Kappa

Storage

Storage*	-15°C to -25°C/1 year (Do not lower than -25°C)
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA

Recommended Dilution Ratios

WB 1:500-1:2000
ICC/IF 1:200-1:1000
ELISA 1:5000-1:20000

Basic Information

Clonality	Monoclonal
Clone Number	PT0875R

Immunogen Information

Immunogen	The specific immunogen used to produce this antibody is proprietary information.

Specificity	IRF3 (Phospho Ser396) Antibody detects endogenous levels of IRF3 protein only when phosphorylated at S396.The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):HIsNS

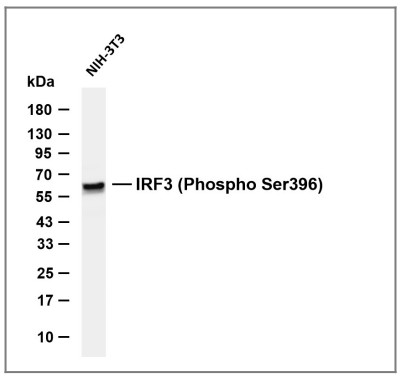
Target Information

Gene name	IRF3
Protein Name	Interferon regulatory factor 3

Organism	Gene ID	UniProt ID
Human	3661;	Q14653;
Mouse	54131;	P70671;

Cellular Localization	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) . .
Tissue specificity	Expressed constitutively in a variety of tissues.
Function	Function:Mediates interferon-stimulated response element (ISRE) promoter activation. Functions as a molecular switch for antiviral activity. DsRNA generated during the course of an 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 phosphorylated in response to induction. An alternate model propose that the five serine/threonine residues between 396 and 405 are phosphorylated in response to a viral infection. Phosphorylation , and subsequent activation of IRF3 is inhibited by vaccinia virus protein E3. ,similarity:Belongs to the IRF family. ,similarity:Contains 1 tryptophan pentad repeat DNA-binding domain. ,subcellular location:Shuttles between cytoplasmic and nuclear compartments , with export being the prevailing effect. When activated , IRF3 interaction with CREBBP prevents its export to the cytoplasm. ,subunit:Homodimer; phosphorylation-induced. Interacts with CREBBP. May interact with MAVS. Interacts with IKBKE and TBK1. Interacts with TICAM1 and TICAM2. Interacts with rotavirus A NSP1 (via C-terminus) ; this interaction leads to the proteasome-dependent degradation of IRF3. ,tissue specificity:Expressed constitutively in a variety of tissues. ,

Validation Data



Various whole cell lysates were separated by 4-8% SDS-PAGE, and the membrane was blotted with anti-IRF3 (Phospho Ser396) antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: NIH-3T3 Predicted band size: 47kDa Observed band size: 60kDa

Contact information

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Please scan the QR code to access additional product information:
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