

IRF3 (Phospho Ser385) Rabbit pAb

CatalogNo: YP0880 **Orthogonal Validated** 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC, IF, ELISA

MW

- 48-55kD (Observed)

Isotype

- IgG

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-1:2000

IHC 1:100-1:300

IF 1:200-1:1000

ELISA 1:10000

Not yet tested in other applications.

Basic Information

Clonality Polyclonal

Immunogen Information

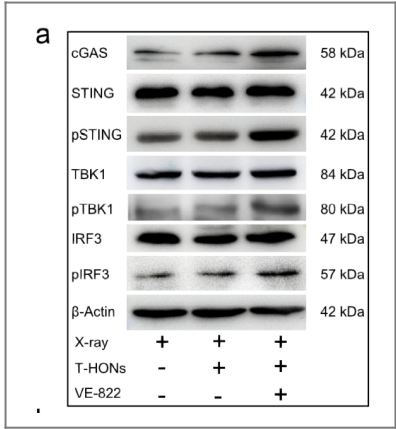
Immunogen The antiserum was produced against synthesized peptide derived from human IRF3 around the phosphorylation site of Ser385. AA range:351-400

Specificity Phospho-IRF3 (S385) Polyclonal Antibody detects endogenous levels of IRF3 protein only when phosphorylated at S385. 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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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):GAsSL

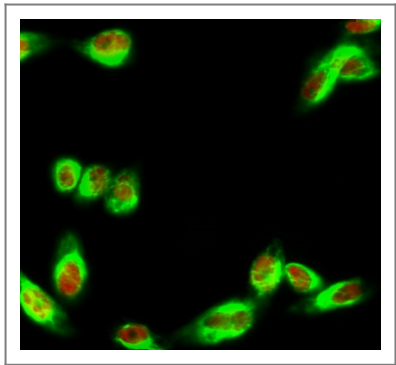
Target Information

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. ,		

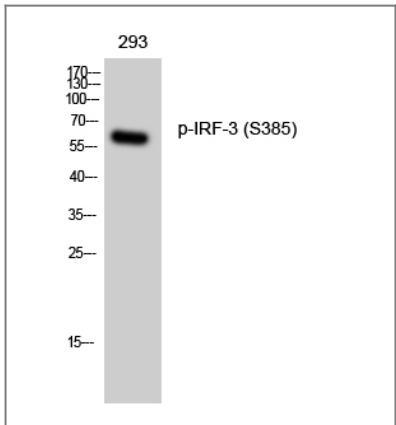
Validation Data



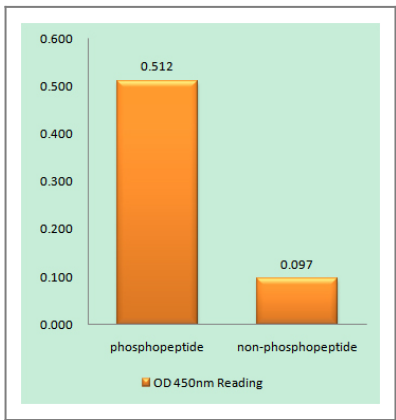
Hafnium oxide nanoparticles coated ATR inhibitor to enhance the radiotherapy and potentiate antitumor immune response
CHEMICAL ENGINEERING JOURNAL Zhanjun Gu WB Mouse 4T1 cell



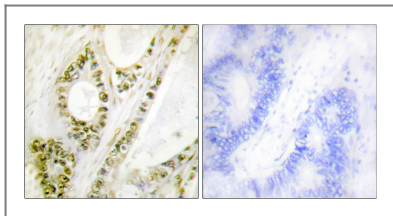
Immunofluorescence analysis of HeLa cell. 1, mouse Tubulin Antibody YM3035 (green) was diluted at 1:200 (4°C overnight). IRF3 (Phospho Ser385) Rabbit pAb (red) was diluted at 1:200 (4°C overnight). 2, Goat Anti Rabbit Alexa Fluor 594 Catalog:RS3611 was diluted at 1:1000 (room temperature, 50min). Goat Anti Mouse Alexa Fluor 488 Catalog:RS3208 was diluted at 1:1000 (room temperature, 50min).



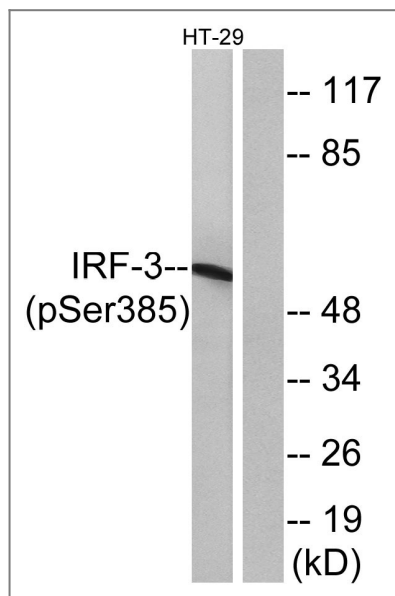
Western Blot analysis of 293 cells using Phospho-IRF-3 (S385) Polyclonal Antibody



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using IRF-3 (Phospho-Ser385) Antibody



Immunohistochemistry analysis of paraffin-embedded human colon carcinoma, using IRF-3 (Phospho-Ser385) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from HT29 cells treated with INSULIN 0.01U/ML 15', using IRF-3 (Phospho-Ser385) Antibody. The lane on the right is blocked with the phospho peptide.

Contact information

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Please scan the QR code to access additional product information:
IRF3 (Phospho Ser385) Rabbit pAb

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