

IRF3 (ANT0076R) Rabbit mAb

CatalogNo: ANT8227 **Recombinant** 

Formulation: PBS,50%glycerol,0.05%Proclin 300,0.05%BSA
Quantity : 100 ug/vial

Host Species

- Rabbit
- Human,Mouse,Rat,

Reactivity

- WB,IHC,IF,IP,ELISA

Applications

MW

- 47kD (Calculated)
 - IgG,Kappa
- 55kD (Observed)

Isotype

Recommended Dilution Ratios

IHC 1:200-1:1000

WB 1:500-1:2000

IF 1:200-1:1000

ELISA 1:5000-1:20000

IP 1:50-1:200,

Storage

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

Basic Information

Clonality Monoclonal

Clone Number ANT0076R

Target Information

Endogenous

Gene name IRF3
Protein Name IRF3

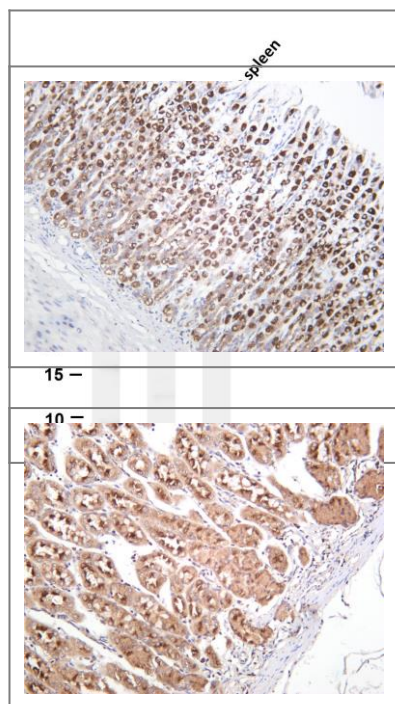
Organism	Gene ID	UniProt ID
Human	3661 ;	Q14653 ;
Mouse	54131 ;	P70671 ;

Cellular Localization Cytoplasm, Nucleus

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.,ANTM: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 Cterminus); 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 4-20% SDS-PAGE, and the membrane was blotted with anti-IRF3 (ANT0076R) antibody. The HRPconjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: Hela Lane 2: THP-1 Lane 3: Mouse spleen Predicted band size: 47kDa Observed band size: 55kDa
Rat stomach was stained with anti-IRF3 (ANT0076R) rabbit antibody

Human stomach was stained with anti-IRF3 (ANT0076R) rabbit antibody

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