

**产品名称: IRF-3 Rabbit Polyclonal Antibody**  
**产品货号: APRab12742**



## 产品概述 (Summary)

|                        |                                  |
|------------------------|----------------------------------|
| 产品名称 (Production Name) | IRF-3 Rabbit Polyclonal Antibody |
| 描述 (Description)       | Rabbit polyclonal Antibody       |
| 宿主 (Host)              | Rabbit                           |
| 应用 (Application)       | WB,IHC,ICC/IF,ELISA              |
| 种属反应性 (Reactivity)     | Human,Rat,Mouse,Other            |

## 产品性能 (Performance)

|                     |                                                                                                   |
|---------------------|---------------------------------------------------------------------------------------------------|
| 偶联物 (Conjugation)   | Unconjugated                                                                                      |
| 修饰 (Modification)   | Unmodified                                                                                        |
| 同种型 (Isotype)       | IgG                                                                                               |
| 克隆 (Clonality)      | Polyclonal                                                                                        |
| 形式 (Form)           | Liquid                                                                                            |
| 存放说明 (Storage)      | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.          |
| 储存溶液 (Buffer)       | Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N. |
| 纯化方式 (Purification) | Affinity purification                                                                             |

## 免疫原信息 (Immunogen)

|                        |                                                                                                         |
|------------------------|---------------------------------------------------------------------------------------------------------|
| 基因名 (Gene Name)        | IRF3                                                                                                    |
| 别名 (Alternative Names) | IRF3; Interferon regulatory factor 3; IRF-3                                                             |
| 基因 ID (Gene ID)        | 3661.0                                                                                                  |
| 蛋白 ID (SwissProt ID)   | Q14653.The antiserum was produced against synthesized peptide derived from human IRF3. AA range:351-400 |

## 产品应用 (Application)

|                          |                                                                           |
|--------------------------|---------------------------------------------------------------------------|
| 稀释比 (Dilution Ratio)     | WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:200-1:1000,ELISA 1:20000-1:40000 |
| 蛋白分子量 (Molecular Weight) | 48-55kDa                                                                  |

## 研究背景 (Background)

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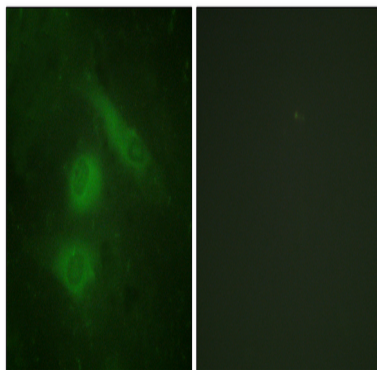


This gene encodes a member of the interferon regulatory transcription factor (IRF) family. The encoded protein is found in an inactive cytoplasmic form that upon serine/threonine phosphorylation forms a complex with CREBBP. This complex translocates to the nucleus and activates the transcription of interferons 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],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 (DRAFI), 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.,

## 研究领域 (Research Area)

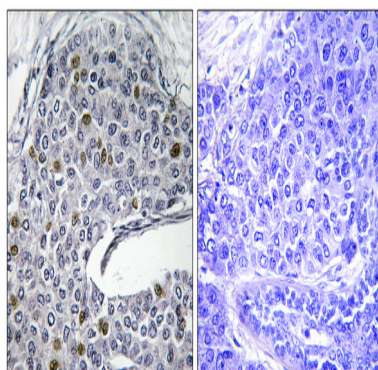
Toll\_Like;RIG-I-like receptor;Cytosolic DNA-sensing pathway;

## 图片 (Image Data)

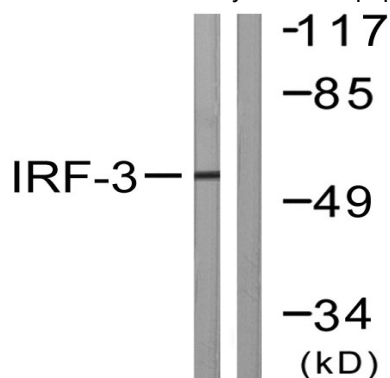


Immunofluorescence analysis of HeLa cells, using IRF3 Antibody. The picture on the right is blocked with the synthesized peptide.

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Immunohistochemistry analysis of paraffin-embedded human lung carcinoma tissue, using IRF3 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from K562 cells, using IRF3 Antibody. The lane on the right is blocked with the synthesized peptide.

### 注意事项 (Note)

For research use only .