

# STAT2 (Phospho Tyr690) Rabbit pAb

CatalogNo: YP0612 **Orthogonal Validated** 

## Key Features

### Host Species

- Rabbit

### Reactivity

- Human,Rat

### Applications

- WB,IHC,IF,ELISA

### MW

- 113kD (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****ELISA 1:20000****IF 1:50-200**

## Basic Information

**Clonality** Polyclonal

## Immunogen Information

**Immunogen** The antiserum was produced against synthesized peptide derived from human STAT2 around the phosphorylation site of Tyr690. AA range:656-705

**Specificity**

Phospho-STAT2 (Y690) Polyclonal Antibody detects endogenous levels of STAT2 protein only when phosphorylated at Y690. 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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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):RKYLK

**| Target Information**

**Gene name** STAT2

**Protein Name** Signal transducer and activator of transcription 2

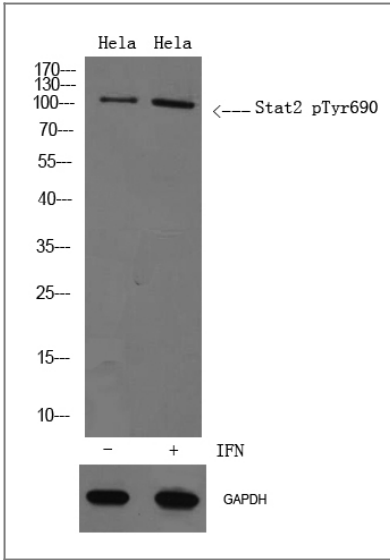
Organism	Gene ID	UniProt ID
Human	<a href="#">6773;</a>	<a href="#">P52630;</a>
Mouse		<a href="#">Q9WVL2;</a>

**Cellular Localization** Cytoplasm . Nucleus . Translocated into the nucleus upon activation by IFN-alpha/beta. .

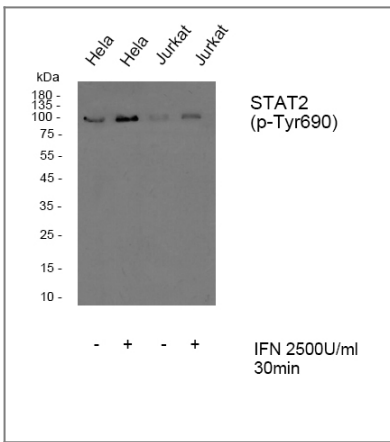
**Tissue specificity** Human small intestine,Lung,

**Function** Function:Signal transducer and activator of transcription that mediates signaling by type I IFNs (IFN-alpha and IFN-beta). Following type I IFN binding to cell surface receptors, Jak kinases (TYK2 and JAK1) are activated, leading to tyrosine phosphorylation of STAT1 and STAT2. The phosphorylated STATs dimerize, associate with ISGF3G/IRF-9 to form a complex termed ISGF3 transcription factor, that enters the nucleus. ISGF3 binds to the IFN stimulated response element (ISRE) to activate the transcription of interferon stimulated genes, which drive the cell in an antiviral state.,PTM:Tyrosine phosphorylated in response to IFN-alpha.,similarity:Belongs to the transcription factor STAT family.,similarity:Contains 1 SH2 domain.,subcellular location:Translocated into the nucleus upon activation by IFN-alpha/beta.,subunit:Interacts with ISGF3G/IRF-9 in the cytoplasm. Heterodimer with STAT1 upon IFN-alpha/beta induced phosphorylation. Interacts with CRSP2 and CRSP6. Interacts with Simian virus 5 protein V and rabies virus phosphoprotein.,

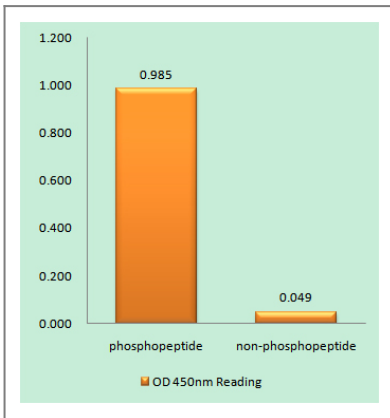
**| Validation Data**



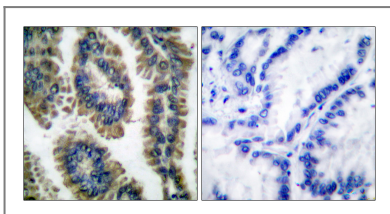
Western blot analysis of lysates from HeLa cells treated with IFN 2500U/ml 30' , using Stat2 p-Tyr690 Antibody. Primary Antibody was diluted at 1:1000 4° over night, secondary antibody (Immunoway cat:RS0002) was diluted at 1:10000, 37° 1hour.



Western blot analysis of Stat2 (phospho Tyr690) Polyclonal Antibody, using HeLa, Jurkat cell treated or untreated with IFN 2500U/ml 30', 4° over night, secondary antibody (cat: RS0002) was diluted at 1:10000, 37° 1hour.



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using STAT2 (Phospho-Tyr690) Antibody



Immunohistochemistry analysis of paraffin-embedded human lung carcinoma, using STAT2 (Phospho-Tyr690) Antibody. The picture 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:  
**STAT2 (Phospho Tyr690) Rabbit pAb**

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