

# Phospho-STAT1 (Tyr701) Monoclonal Antibody (ST1P-11A5)

## Product Details

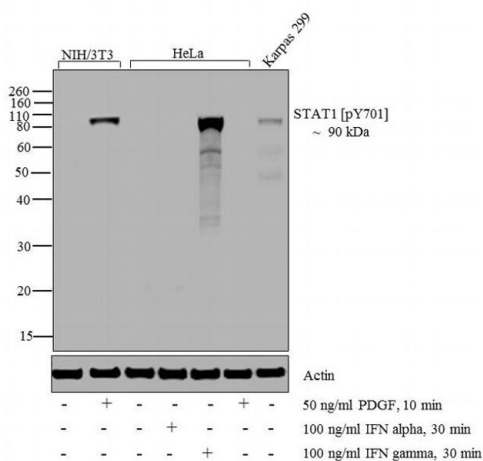
Size	50 µg
Species Reactivity	Human, Mouse
Published Species	All, Virus, Human, Mouse, Rhesus monkey
Host/Isotope	Mouse / IgG2a, kappa
Class	Monoclonal
Type	Antibody
Clone	ST1P-11A5
Conjugate	Unconjugated
Immunogen	Synthetic phospho peptide encompassing the conserved C-terminal site (Y701) of murine STAT1 protein
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.4
Contains	0.1% sodium azide
Storage Conditions	-20°C
RRID	AB_2533113

Applications	Tested	Dilution	Published
Immunocytochemistry (ICC)	-		2 Publications
Immunofluorescence (IF)	-		1 Publication
Western Blot (WB)	✓	0.5-2 µg/mL	12 Publications
Immunohistochemistry (IHC)	-		1 Publication
ChIP assay (ChIP)	✓	5 µg	1 Publication
Miscellaneous PubMed (MISC)	-	1 µg/ml	2 Publications
ELISA (ELISA)	✓	0.1-1.0 µg/mL	
Immunohistochemistry (Paraffin) (IHC (P))	✓	1:10-1:100	

## Product Specific Information

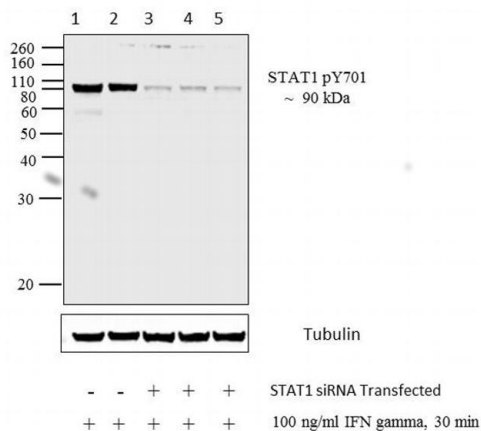
This antibody reacts specifically with the tyrosine-701 phosphorylated form of STAT1 and does not exhibit appreciable cross-reactivity with corresponding tyrosine phosphorylated forms of other STAT proteins or with other endogenous phosphotyrosine-containing proteins. To confirm the exclusive recognition of tyrosine phosphorylated STAT1, Western blots were carried out on lysates of 293 cells transfected with a STAT1 expression vector together with a wild type or kinase “dead” JAK1 expression vector. In addition, recognition of endogenous tyrosine phosphorylated STAT1 was confirmed on Western blots with cell lysates derived from serum starved or EGF-stimulated A431 cells and on Western blots with IFN $\alpha$ -stimulated mouse embryo fibroblast lysates.

## Advanced Verification Data



### Phospho-STAT1 (Tyr701) Antibody (33-3400)

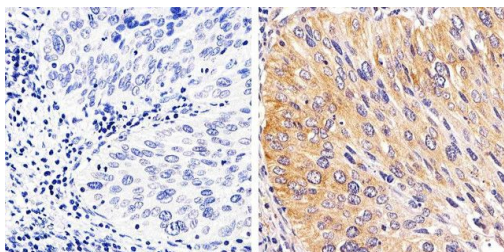
Altered expression of proteins upon cell treatment demonstrates antibody specificity. Western blot analysis of STAT1 (pT701) using STAT1 (pT701) Mouse Monoclonal Antibody (Product # 33-3400) shows induction of STAT1 (pT701) in NIH/3T3 cells treated with PDGF, and HeLa cells treated with IFN gamma. Cell Treatment validation info.



### Phospho-STAT1 (Tyr701) Antibody (33-3400)

Antibody specificity was demonstrated by siRNA mediated knockdown of the target protein. HeLa cells were transfected with STAT1 siRNA and decrease in signal intensity was observed in western blot application using Phospho-STAT1 (Tyr701) Monoclonal Antibody (Product # 33-3400). KnockDown validation info.

## Product Images For Phospho-STAT1 (Tyr701) Monoclonal Antibody (ST1P-11A5)



### Phospho-STAT1 (Tyr701) Antibody (33-3400) in IHC (P)

Immunohistochemistry analysis of Phospho-STAT1 (pTyr701) showing staining in the nucleus and cytoplasm of paraffin-embedded human cervical carcinoma tissue (right) compared to a negative control without primary antibody (left). To expose target proteins, antigen retrieval was performed using 10mM sodium citrate (pH 6.0), microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H<sub>2</sub>O<sub>2</sub>-methanol for 15 min at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with a Phospho-STAT1 pTyr701 monoclonal antibody (Product # 33-3400) diluted in 3% BSA-PBS at a dilution of 1:20 overnight at 4°C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.

View more figures on [thermofisher.com](http://thermofisher.com)

## 19 References

### Immunocytochemistry (2)

PLoS pathogens

#### Vaccinia Virus Protein C6 Inhibits Type I IFN Signalling in the Nucleus and Binds to the Transactivation Domain of STAT2.

Authors: Stuart JH, Sumner RP, Lu Y, Snowden JS, Smith GL

**Species**  
Human

**Dilution**  
Not Cited

**Year**  
2016

PLoS pathogens

#### Functional genomics highlights differential induction of antiviral pathways in the lungs of SARS-CoV-infected macaques.

"33-3400 was used in immunocytochemistry and immunohistochemistry - paraffin section propose that induction of early IFN signaling may confer protection against severe acute respiratory syndrome coronavirus infection"

Authors: de Lang A, Baas T, Teal T, Leijten LM, Rain B, Osterhaus AD, Haagmans BL, Katze MG

**Species**  
Rhesus monkey

**Dilution**  
Not Cited

**Year**  
2007

### Immunofluorescence (1)

PLoS pathogens

#### Vaccinia Virus Protein C6 Inhibits Type I IFN Signalling in the Nucleus and Binds to the Transactivation Domain of STAT2.

Authors: Stuart JH, Sumner RP, Lu Y, Snowden JS, Smith GL

**Species**  
Human

**Dilution**  
Not Cited

**Year**  
2016

### Western Blot (12)

Nature communications

#### PDGFR signalling regulates local inflammation and synergizes with hypercholesterolaemia to promote atherosclerosis.

"33-3400 was used in western blot to study regulation of local inflammation and synergy with hypercholesterolaemia to promote atherosclerosis by PDGFRbeta signaling"

Authors: He C, Medley SC, Hu T, Hinsdale ME, Lupu F, Virmani R, Olson LE

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2015

[View more WB references on thermofisher.com](#)

### More applications with references on thermofisher.com

IHC (1)

ChIP (1)

MISC (2)

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