

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

## Product Details

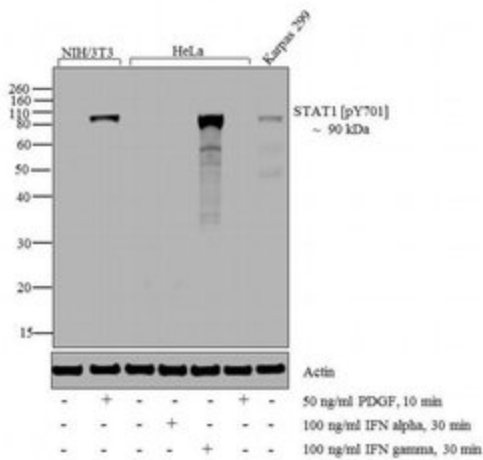
Size	50 µg
Species Reactivity	Human, Mouse
Published Species	All, Virus, Human, Mouse, Rhesus monkey
Host/Isotype	Mouse / IgG2a, kappa
Class	Monoclonal
Type	Antibody
Clone	ST1P-11A5
Conjugate	Unconjugated
Immunogen	Synthetic phospho peptide encompassing the conserved C-terminal site (Y701) of murine 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	Publications
ChIP assay (ChIP)	5 µg	1 Publication
ELISA (ELISA)	0.1-1.0 µg/mL	-
Immunohistochemistry (Paraffin) (IHC (P))	1:10-1:100	-
Western Blot (WB)	0.5-2 µg/mL	15 Publications
Immunocytochemistry (ICC)	-	2 Publications
Immunofluorescence (IF)	-	1 Publication
Immunohistochemistry (IHC)	-	2 Publications
Miscellaneous PubMed (Misc)	-	2 Publications

## Product Specific Information

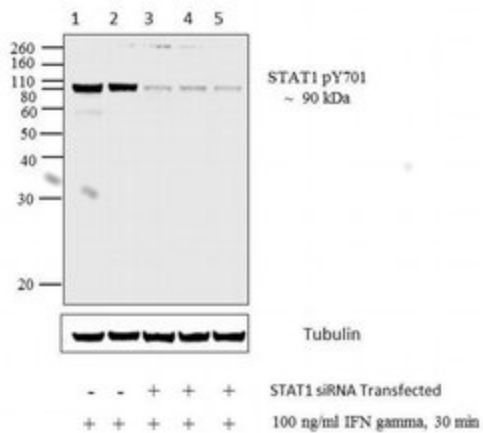
This antibody reacts specifically with the tyrosine-701 phosphorylated form of STAT1 and does not exhibit appreciable cross-reactivity with corresponding tyrosine phosphorylated forms of other STAT proteins or with other endogenous phosphotyrosine-containing proteins. To confirm the exclusive recognition 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.



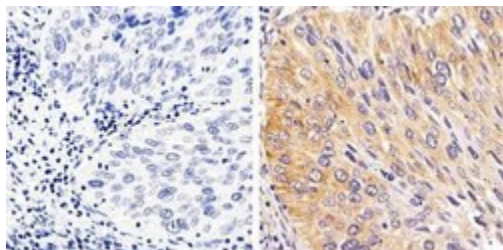
### Phospho-STAT1 (Tyr701) Antibody (33-3400)

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](https://thermofisher.com)

## 23 References

### Western Blot (15)

The Journal of clinical investigation

#### The JAK2/STAT3 signaling pathway is required for growth of CD44CD24 stem cell-like breast cancer cells in human tumors.

"33-3400 was used in Western Blotting to identify 15 genes required for cell growth and proliferation in CD44+CD24-human breast cancer cells."

Authors: Marotta LL, Almendro V, Marusyk A, Shipitsin M, Schemme J, Walker SR, Bloushtain-Qimron N, Kim JJ, Choudhury SA, Maruyama R, Wu Z, Gönen M, Mulvey LA, Bessarabova MO, Huh SJ, Silver SJ, Kim SY, Park SY, Lee HE, Anderson KS, Richardson AL, Nikolskaya T, Nikolsky Y, Liu XS, Root DE, Hahn WC, Frank DA, Polyak K

**Species**  
Human

**Dilution**  
Not Cited

**Year**  
2011

Journal of pediatric surgery

#### The protective effect of moderate hypothermia during intestinal ischemia-reperfusion is associated with modification of hepatic transcription factor activation.

"33-3400 was used in western blot to study the mechanism of hypothermic protection during intestinal ischemia-reperfusion"

Authors: Parkinson EJ, Townsend PA, Stephanou A, Latchman DS, Eaton S, Pierro A

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2004

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

### Immunohistochemistry (2)

Scientific reports

#### TWEAK blockade decreases atherosclerotic lesion size and progression through suppression of STAT1 signaling in diabetic mice.

"33-3400 was used in Western Blotting to demonstrate that TWEAK blockade delay plaque progression and alter plaque composition in diabetic atherosclerotic mice."

Authors: Fernández-Laso V, Sastre C, Méndez-Barbero N, Egido J, Martín-Ventura JL, Gómez-Guerrero C, Blanco-Colio LM

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2017

PLoS pathogens

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

"Published figure using Phospho-STAT1 (Tyr701) monoclonal antibody (Product # 33-3400) in Immunohistochemistry"

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

### More applications with references on thermofisher.com

ICC (2)

IF (1)

ChIP (1)

Misc (2)

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