

## Stat1(Phospho Tyr701) Polyclonal Antibody

### Description

<b>Product type</b>	Primary Antibody
<b>Code</b>	BT-AP01644
<b>Host</b>	Rabbit
<b>Isotype</b>	IgG
<b>Size</b>	20ul, 50ul, 100ul
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human STAT1 around the phosphorylation site of Tyr701. AA range:668-717
<b>Mol wt</b>	87335
<b>Species reactivity</b>	Human, Mouse, Rat, Monkey
<b>Clonality</b>	Polyclonal
<b>Recommended application</b>	IF, ICC, WB, IHC-p, IP, ELISA
<b>Concentration</b>	1 mg/ml
<b>Full name</b>	Signal transducer and activator of transcription 1-alpha/beta
<b>Synonyms</b>	Signal transducer and activator of transcription 1-alpha/beta; STAT1; Signal transducer and activator of transcription 1-alpha/beta; Transcription factor ISGF-3 components p91/p84

**This product is for research use only, not for use in human, therapeutic or diagnostic procedure.**

### Background

The protein encoded by this gene is a member of the STAT protein family. In response to cytokines and growth factors| STAT family members are phosphorylated by the receptor associated kinases| and then form homo- or heterodimers that translocate to the cell nucleus where they act as transcription activators. This protein can be activated by various ligands including interferon-alpha| interferon-gamma| EGF| PDGF and IL6. This protein mediates the expression of a variety of genes| which is thought to be important for cell viability in response to different cell stimuli and pathogens. Two alternatively spliced transcript variants encoding distinct isoforms have been described.

### Recommended Dilution

WB: 1: 500 - 1: 2000

IP: 2 - 5 ug: mg

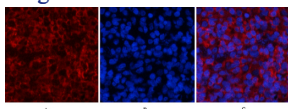
IHC-p: 1: 100 - 1: 300

IF: 1: 50 - 1: 200

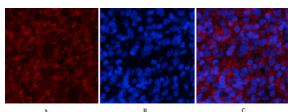
ELISA: 1: 10000

Not yet tested in other applications.

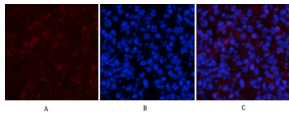
### Images



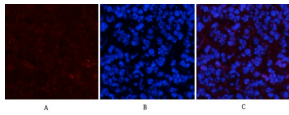
Immunofluorescence analysis of HeLa cell. Stat1 (phospho Tyr701) Polyclonal Antibody(Red) was diluted at 1:200(4°C overnight). HER2 Monoclonal Antibody(11H9)(Green) was diluted at 1:200(4°C overnight).



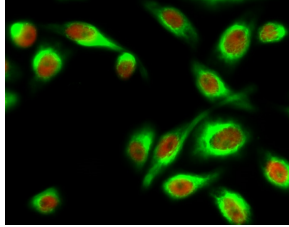
Immunofluorescence analysis of rat-spleen tissue. 1, Stat1 (phospho Tyr701) Polyclonal Antibody(Red) was diluted at 1:200(4°C overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300(room temperature, 50min). 3, Picture B: DAPI(blue) 10min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B



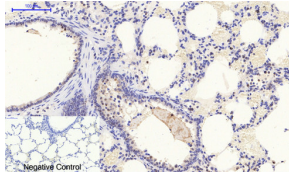
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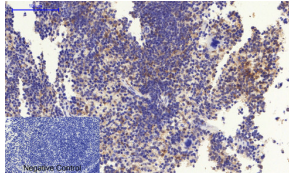
Immunofluorescence analysis of mouse-spleen tissue. 1, Stat1 (phospho Tyr701) Polyclonal Antibody (Red) was diluted at 1:200 (4°C overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300 (room temperature, 50min). 3, Picture B: DAPI (blue) 10min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B



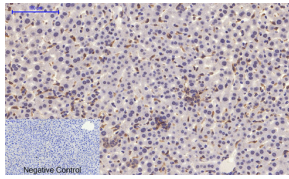
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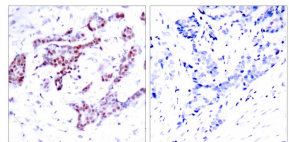
Immunohistochemical analysis of paraffin-embedded Rat-lung tissue. 1, Stat1 (phospho Tyr701) Polyclonal Antibody was diluted at 1:200 (4°C overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98°C, 20min). 3, Secondary antibody was diluted at 1:200 (room temperature, 30min). Negative control was used by secondary antibody only.



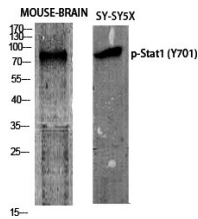
Immunohistochemical analysis of paraffin-embedded Mouse-liver tissue. 1, Caspase-1 Polyclonal Antibody was diluted at 1:200 (4°C overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98°C, 20min). 3, Secondary antibody was diluted at 1:200 (room temperature, 30min). Negative control was used by secondary antibody only.



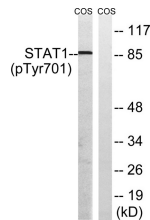
Immunohistochemical analysis of paraffin-embedded Mouse-spleen tissue. 1, Stat1 (phospho Tyr701) Polyclonal Antibody was diluted at 1:200 (4°C overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98°C, 20min). 3, Secondary antibody was diluted at 1:200 (room temperature, 30min). Negative control was used by secondary antibody only.



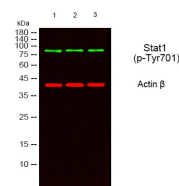
Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using STAT1 (Phospho-Tyr701) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from 1) MOUSE-BRAIN, 2) SY-SY5X, 3) COS7 cells, (Green) primary antibody was diluted at 1:1000, 4°C overnight, secondary antibody was diluted at 1:10000, 37°C 1hour. (Red) Actin β Monoclonal Antibody (5B7) was diluted at 1:5000 as loading control, 4°C overnight, secondary antibody was diluted at 1:10000, 37°C 1hour.



Western Blot analysis of various cells using Phospho-Stat1 (Y701) Polyclonal Antibody diluted at 1:1000



Western Blot analysis of COS7 cells using Phospho-Stat1 (Y701) Polyclonal Antibody diluted at 1:1000



Western blot analysis of lysates from COS7 cells, using STAT1 (Phospho-Tyr701) Antibody. The lane on the right is blocked with the phospho peptide.

### Storage

-20°C for 1 year

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