

## Stat3(Phospho Tyr705) Polyclonal Antibody

### Description

<b>Product type</b>	Primary Antibody
<b>Code</b>	BT-AP08087
<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 STAT3 around the phosphorylation site of Tyr705. AA range:672-721
<b>Mol wt</b>	88068
<b>Species reactivity</b>	Human, Mouse, Rat, Pig
<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 3
<b>Synonyms</b>	Signal transducer and activator of transcription 3; STAT3; APRF; Signal transducer and activator of transcription 3; Acute-phase response factor

**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 is activated through phosphorylation in response to various cytokines and growth factors including IFN $\gamma$ | EGF| IL5| IL6| HGF| LIF and BMP2. This protein mediates the expression of a variety of genes in response to cell stimuli| and thus plays a key role in many cellular processes such as cell growth and apoptosis. The small GTPase Rac1 has been shown to bind and regulate the activity of this protein. PIAS3 protein is a specific inhibitor of this protein. Mutations in this gene are associated with infantile-onset multisystem autoimmune disease and hyper

### Recommended Dilution

WB: 1: 500 - 1: 2000

IP: 2 - 5 ug: mg

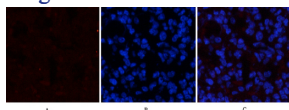
IHC-p: 1: 100 - 1: 300

IF: 1: 50 - 1: 200

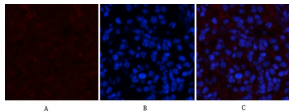
ELISA: 1: 20000

Not yet tested in other applications.

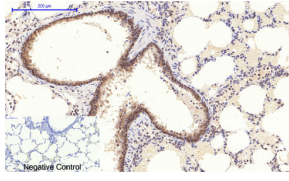
### Images



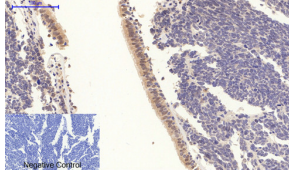
Immunofluorescence analysis of mouse-spleen tissue. 1, Stat3 (phospho Tyr705) Polyclonal Antibody(Red) was diluted at 1:200(4°C overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300(room temperature, 50min). 3, Picture B: DAPI(blue) 10min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B



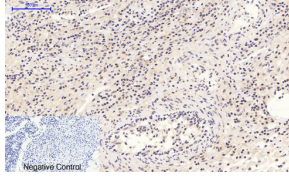
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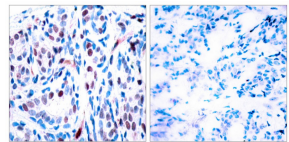
Immunohistochemical analysis of paraffin-embedded Human-lung-cancer tissue. 1,Stat3 (phospho Tyr705) Polyclonal Antibody was diluted at 1:200(4°C overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room temperature, 30min). Negative control was used by secondary antibody only.



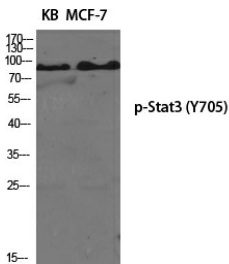
Immunohistochemical analysis of paraffin-embedded Human-Appendix tissue. 1,Stat3 (phospho Tyr705) Polyclonal Antibody was diluted at 1:200(4°C overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room temperature, 30min). Negative control was used by secondary antibody only.



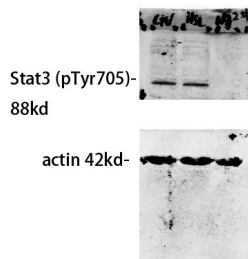
Immunohistochemical analysis of paraffin-embedded Rat-lung tissue. 1,Stat3 (phospho Tyr705) Polyclonal Antibody was diluted at 1:200(4°C overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room temperature, 30min). Negative control was used by secondary antibody only.



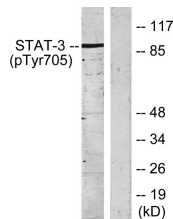
Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using STAT3 (Phospho-Tyr705) Antibody. The picture on the right is blocked with the phospho peptide.



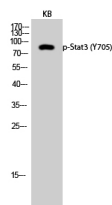
Western Blot analysis of our customer's samples using primary antibody diluted at 1:500, The picture was kindly provided by our customer.



Western Blot analysis of various cells using Phospho-Stat3 (Y705) Polyclonal Antibody diluted at 1:2000



Western Blot analysis of KB cells using Phospho-Stat3 (Y705) Polyclonal Antibody diluted at 1:2000



Western blot analysis of lysates from HeLa cells, using STAT3 (Phospho-Tyr705) Antibody. The lane on the right is blocked with the phospho peptide.

## Storage

-20°C for 1 year

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