

## Anti-Phospho-STAT3 (Tyr705) Polyclonal Antibody 2

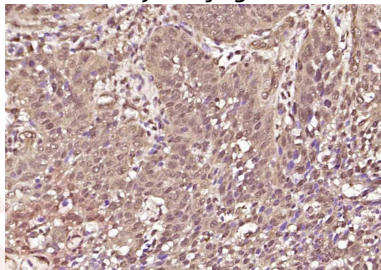
### Product Details

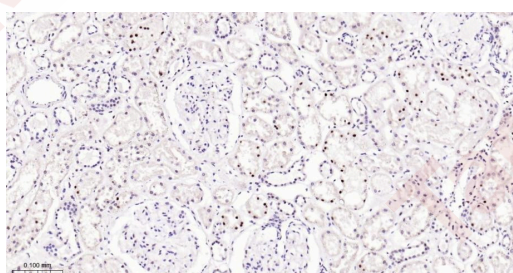
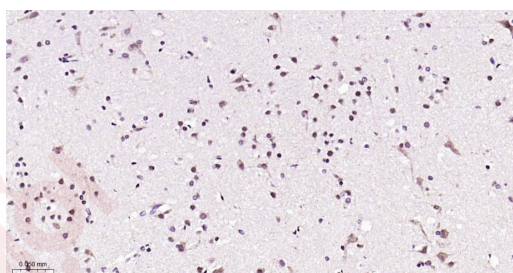
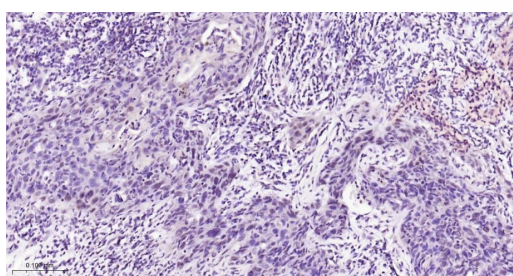
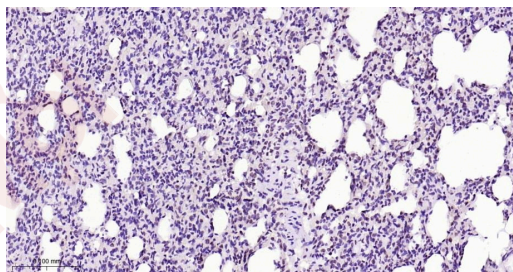
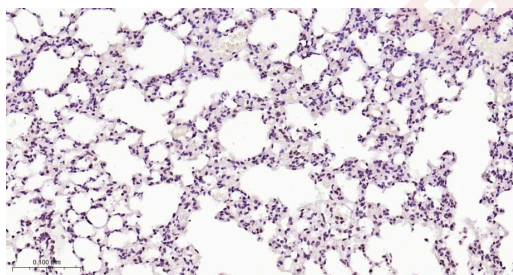
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Molecular Weight:	Theoretical: 85 kDa.
Purification:	Protein A purified

### Applications

#### Verified Activity:

1. Paraformaldehyde-fixed, paraffin embedded (human laryngeal carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (phospho-STAT3 (Tyr705)) Polyclonal Antibody, Unconjugated (TMAB-01510) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.
2. Paraformaldehyde-fixed, paraffin embedded Mouse Lung; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with phospho-STAT3 (Tyr705) alpha Polyclonal Antibody, Unconjugated (TMAB-01510) at 1:200 overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.
3. Paraformaldehyde-fixed, paraffin embedded Rat Lung; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with phospho-STAT3 (Tyr705) alpha Polyclonal Antibody, Unconjugated (TMAB-01510) at 1:200 overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.
4. Paraformaldehyde-fixed, paraffin embedded Human Cervical Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with phospho-STAT3 (Tyr705) alpha Polyclonal Antibody, Unconjugated (TMAB-01510) at 1:200 overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.
5. Paraformaldehyde-fixed, paraffin embedded Human Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with phospho-STAT3 (Tyr705) alpha Polyclonal Antibody, Unconjugated (TMAB-01510) at 1:200 overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.
6. Paraformaldehyde-fixed, paraffin embedded Human Kidney; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with phospho-STAT3 (Tyr705) alpha Polyclonal Antibody, Unconjugated (TMAB-01510) at 1:200 overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.





Application: IF,IHC-Fr,IHC-P

Recommended IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

### Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

### Antigen Details

Immunogen:	KLH conjugated Synthesised phosphopeptide: human STAT3 around the phosphorylation site of Tyr705
Antigen Species:	Human
Gene ID:	6774
Uniprot ID:	P40763
Synonyms:	p-Stat3 (Tyr705);signal transducer and activator of transcription 3 (acute-phase response factor);HIES;p-Stat3 (Y705);ADMIO;APRF;Stat3 (p-Tyr705);Stat3 (p-Y705);Phospho-Stat3 (Y705)
Biology Area:	STAT family,Transcription factors/regulators,Transcription factors,Surface molecules,STATs, Other factors,SARS Coronavirus,STATs,Intracellular

---

### Research 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 IFNs, 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-immunoglobulin E syndrome. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Sep 2015]

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481