

Anti-Phospho-STAT3 (Ser727) Antibody (8J881)

Product Details

Ig Type:	IgG
Reactivity:	Human,Rat,Mouse
Molecular Weight:	Theoretical: 88 kDa. Actual: 85 kDa.
Clone:	8J881
Purification:	Protein A purified

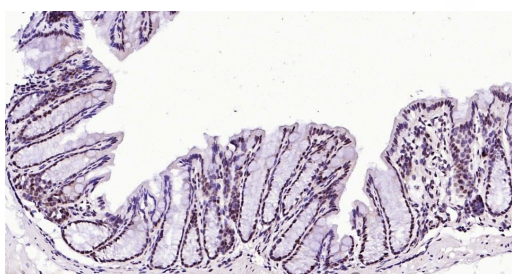
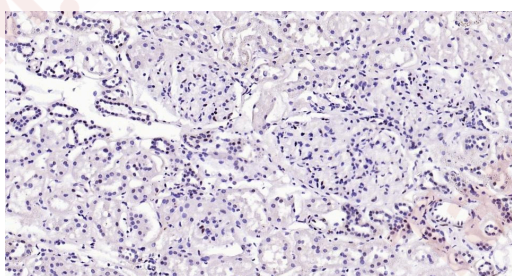
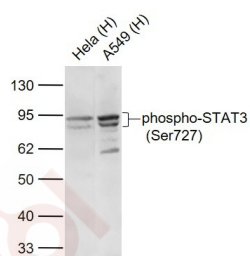
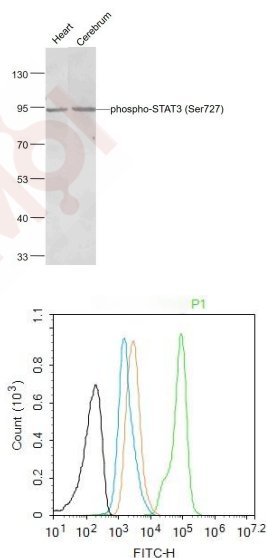
Applications

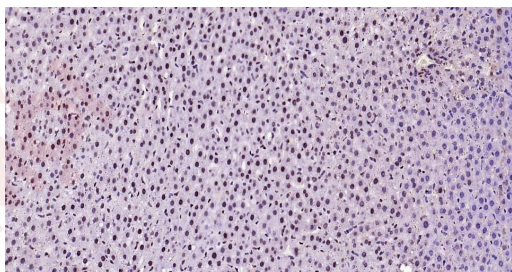
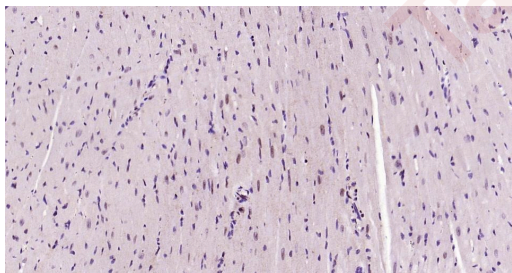
- 1. Sample:**
Heart (Rat) Lysate at 40 µg
Cerebrum (Rat) Lysate at 40 µg
Primary: Anti-phospho-STAT3 (Ser727) (TMAB-01507) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 98 kDa
Observed band size: 94 kDa
- 2. Blank control: A431. Primary Antibody (green line): Rabbit Anti-phospho-STAT3 (Ser727) antibody (TMAB-01507)**
Dilution: 1 µg/10⁶ cells;
Isotype Control Antibody (orange line): Rabbit IgG.
Secondary Antibody: Goat anti-rabbit IgG-AF488
Dilution: 1 µg/test.
Protocol
The cells were fixed with 4% PFA (10 min at room temperature) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature.
- 3. Sample:**
Lane 1: Hela (Human) Cell Lysate at 30 µg
Lane 2: A549 (Human) Cell Lysate at 30 µg
Primary:
Anti-phospho-STAT3 (Ser727) (TMAB-01507) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 92/84 kDa
Observed band size: 92/84 kDa
- 4. Paraformaldehyde-fixed, paraffin embedded Human Kidney; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with phospho-STAT3 (Ser727) Monoclonal Antibody, Unconjugated (TMAB-01507) at 1:200 overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.**
- 5. Paraformaldehyde-fixed, paraffin embedded Mouse Small Intestine; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with phospho-STAT3 (Ser727) Monoclonal Antibody, Unconjugated (TMAB-01507) at 1:200 overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.**
- 6. Paraformaldehyde-fixed, paraffin embedded Mouse Heart; Antigen retrieval by boiling in**

Verified Activity:

sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with phospho-STAT3 (Ser727) Monoclonal Antibody, Unconjugated (TMAB-01507) at 1:200 overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.

7. Paraformaldehyde-fixed, paraffin embedded Rat Liver; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with phospho-STAT3 (Ser727) Monoclonal Antibody, Unconjugated (TMAB-01507) at 1:200 overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.





Application: ICC/IF,IF,IHC-Fr,IHC-P,WB

Recommended ICC/IF=1:100-500; IF=1:200-800; IHC-Fr=1:200-800; IHC-P=1:200-800; WB=1:500-2000

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: A synthesized peptide: human STAT3 around the phosphorylation site of S727

Antigen Species: Human

Gene ID: 6774

Uniprot ID: P40763

Synonyms: p-STAT3 (S727);APRF;signal transducer and activator of transcription 3 (acute-phase response factor);HIES;Phospho-STAT3 (S727);STAT3 (p-Ser727);ADMIO;p-STAT3 (Ser727);STAT3 (p-S727)

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]

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