

## Anti-STAT3 Antibody (3R504)

### Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Molecular Weight:	Theoretical: 88 kDa. Actual: 85 kDa.
Clone:	3R504
Purification:	Protein A purified

### Applications

#### Verified Activity:

1. 25 µg total protein per Lane of various lysates probed with STAT3 monoclonal antibody, unconjugated (TMAB-01787) at 1:5000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at RT for 60 min.
2. Paraformaldehyde-fixed, paraffin embedded Mouse Lung; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with STAT3 Monoclonal Antibody, Unconjugated (TMAB-01787) 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; Antibody incubation with STAT3 Monoclonal Antibody, Unconjugated (TMAB-01787) at 1:200 overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.
4. Paraformaldehyde-fixed, paraffin embedded Mouse Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with STAT3 Monoclonal Antibody, Unconjugated (TMAB-01787) at 1:200 overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.
5. Paraformaldehyde-fixed, paraffin embedded Rat Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with STAT3 Monoclonal Antibody, Unconjugated (TMAB-01787) at 1:200 overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.
6. Paraformaldehyde-fixed, paraffin embedded Mouse Pancreas; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with STAT3 Monoclonal Antibody, Unconjugated (TMAB-01787) at 1:200 overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.
7. Paraformaldehyde-fixed, paraffin embedded Rat Pancreas; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with STAT3 Monoclonal Antibody, Unconjugated (TMAB-01787) at 1:200 overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.
8. Paraformaldehyde-fixed, paraffin embedded Human Pancreatic Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with STAT3 Monoclonal Antibody, Unconjugated (TMAB-01787) at 1:200 overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.
9. Paraformaldehyde-fixed, paraffin embedded Human Cervical Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with STAT3 Monoclonal Antibody, Unconjugated (TMAB-01787) at 1:200 overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.
10. Paraformaldehyde-fixed, paraffin embedded Human Breast Cancer; Antigen retrieval by

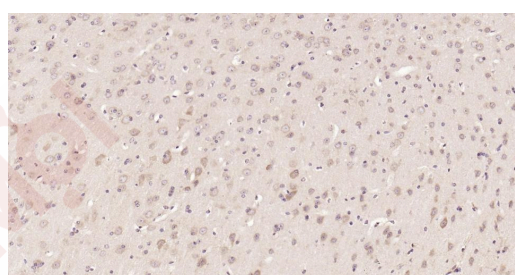
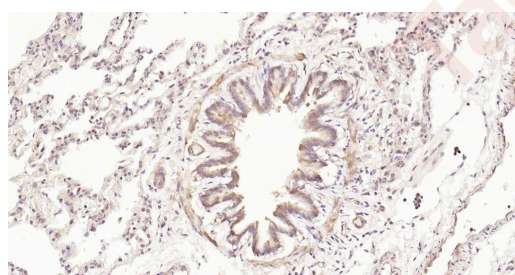
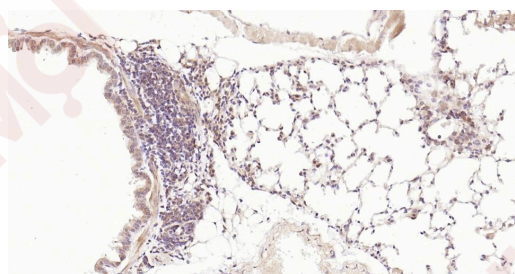
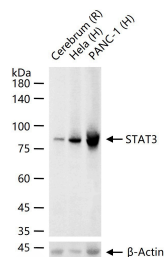
boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with STAT3 Monoclonal Antibody, Unconjugated (TMAB-01787) at 1:200 overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.

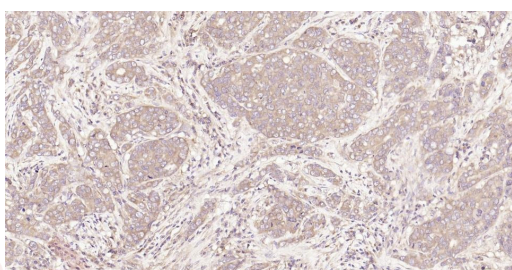
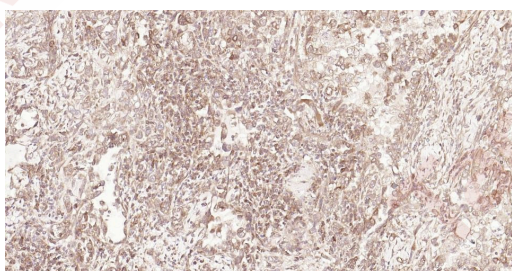
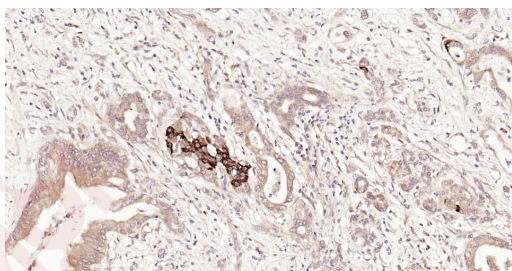
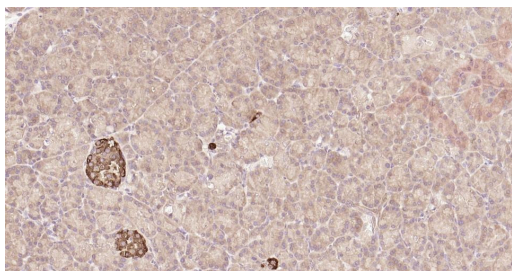
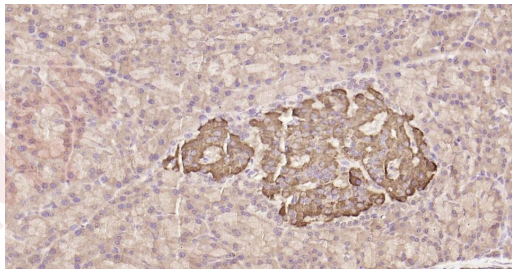
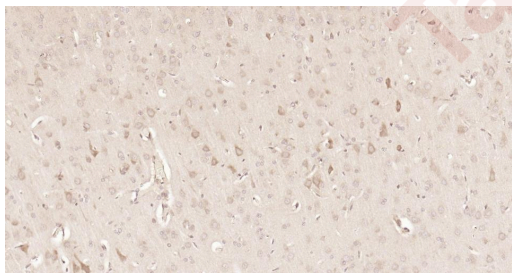
11. Paraformaldehyde-fixed, paraffin embedded Human Kidney Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with STAT3 Monoclonal Antibody, Unconjugated (TMAB-01787) at 1:200 overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.

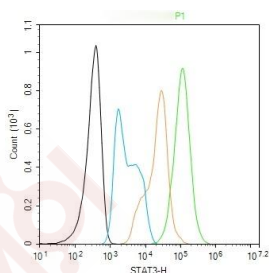
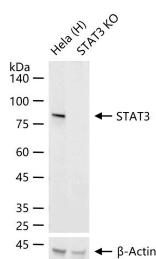
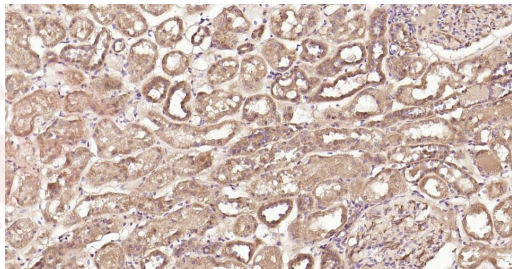
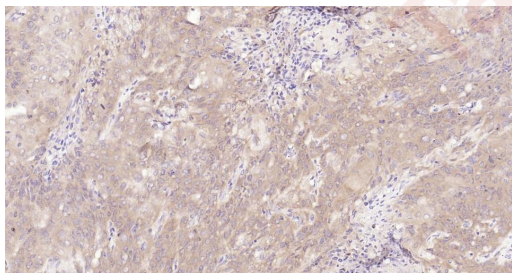
12. Paraformaldehyde-fixed, paraffin embedded Human Kidney; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with STAT3 Monoclonal Antibody, Unconjugated (TMAB-01787) at 1:200 overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.

13. 25 µg total protein per Lane of various lysates probed with STAT3 monoclonal antibody, unconjugated (TMAB-01787) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at RT for 60 min.

14. The HeLa (H) 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 then were incubated in 5% BSA to block non-specific protein-protein interactions (30 min at room temperature). Primary Antibody (green): Rabbit Anti-STAT3 antibody (TMAB-01787): 1:50-100/10<sup>6</sup> cells; Secondary Antibody (white blue): Goat anti-Rabbit IgG-BF488: 1 µg/test. Isotype Control (orange): Rabbit IgG. Blank control (black): PBS.







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

Recommended FCM=1:50-100; ICC/IF=1:50-200; IF=1:100-500; IHC-Fr=1:100-500; IHC-P=1:100-500; WB=1:1000-5000

### 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

Antigen Species: Human

Gene ID: 6774

Uniprot ID: P40763

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

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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