

# AbboMax, Inc

Innovation at Work

## Rabbit anti- STAT3

Synonym: Signal transducer and activator of transcription 3 (STAT3)

### ANTIGEN PREPARATION

A synthetic peptide surrounding to the epitope -PMSPR-- without phosphorylation sites at Ser727 of STAT3 protein from human, mouse, rat, chicken dog and bovine origins.

### BACKGROUND

STAT proteins (Signal transducer and activator of transcription) belong to a family of cytoplasmic transcription factors that can be phosphorylated by a ligand binding to its cell surface receptor. The phosphorylation of STAT3 induces STAT dimerization, nuclear translocation and DNA binding. Stat3 is constitutively activated in a number of human tumors. Stat3-activated transcription seems to be regulated by serine phosphorylation at Ser727.

### PURIFICATION

The Rabbit IgG is purified by Epitope –Affinity Purification.

### SPECIFICITY

This antibody recognizes STAT3 without a phosphorylated sites of Ser 727.

### APPLICATIONS/SUGGESTED WORKING DILUTIONS

Western Blot	0.1-1 µg/ml
ELISA	0.01-0.1 µg/ml
Immunoprecipitation	2-5 µg/ml
IHC	1:50 µg/ml
Flow cytometry	Not tested

### FORMULATION

This affinity purified antibody is supplied in sterile Tris-buffered saline (pH7.2) containing antibody stabilizer

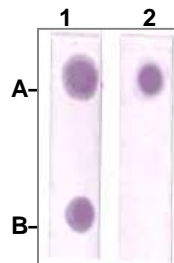
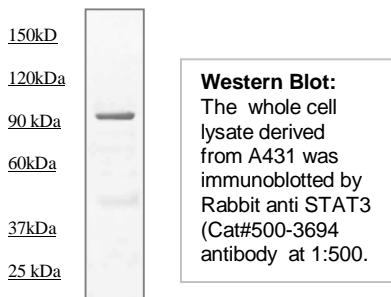
### STORAGE

The antibodies are stable for 12 months from date of receipt when stored at –20°C to –70°C. The antibodies can be stored at 2°C-8°C for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

<b>MOLECULAR WEIGHT:</b>	94 kDa
<b>POSITIVE CONTROL:</b>	A431 whole cell lysate
<b>CELLULAR LOCATION:</b>	Nuclear

Optimal dilutions should be determined by researchers for the specific applications.

### DATA ATTACHMENTS



#### Dot Blot:

1 µg peptide was blot onto NC membrane  
A: STAT3 (pS727) (Phosphospecific)  
B: STAT3 (Paired S727) (Non phosphospecific)  
were blotted at a 1:2000 dilution by:  
1: Rabbit anti-STAT3 (Paired S727) (Cat#500-3694),  
2: Rabbit anti-STAT3 (Phosphospecific). (Cat#500-12044).

### REFERENCES

Ritsuko Matsuo et al. A new expression cloning strategy for isolation of substrate-specific kinases by using phosphorylation site-specific antibody. Journal of Immunological Methods. Volume 247, Issues 1-2, 1 January 2001, Pages 141-151

**FOR RESEARCH USE ONLY.**