

## Monoclonal Antibody to

**STAT5 A/B (phospho-Tyr 695/699)****clone 5G4**

Order No.: **0121-100/STAT5-5G4** Last Modified 09.02.2005

Size (µg) 100

Lot No.: 0121S

Host: Mouse

Isotype: IgG1 kappa

Immunogen: Phosphopeptide conjugated to KLH

Epitope: pTyr-695/pTyr699

| <u>Species Reactivity</u> | Human | Mouse | Rat | Dog |
|---------------------------|-------|-------|-----|-----|
|                           | yes   | yes   | yes | ND  |

**Background & Specificity:**

STATs (signal transducing activators of transcription) are mediators involved in cytokine signalling. In response to a specific cytokine signal, STAT proteins are phosphorylated on conserved tyrosine residues. Phosphorylated STAT proteins dimerize via their SH2 domains and move to the nucleus. The STAT dimers bind to specific DNA elements resulting in transcriptional regulation of downstream target genes. STAT5 is activated in response to prolactine, growth hormone, GM-CSF, and IL-2.

**Related products:**

Mab STAT3-9E12, directed against STAT3 phosphorylated at Tyrosine 705 (#0036-100/STAT3-9E12).  
 Mab STAT3-9E12, directed against STAT3 phosphorylated at Tyrosine 705 (#0036-100/STAT3-9E12).  
 Mab STAT6-8C12, directed against generic STAT6 (0063-100/STAT6-8C12).

**Purification:** The antibody was purified from serum-free cell culture supernatant by subsequent thiophilic adsorption and size exclusion chromatography.

**Formulation:** lyophilized from 1 ml 2 x PBS / 0.1 % Na-azide / PEG and Sucrose.

**Reconstitution:** Reconstitute with 1 ml H<sub>2</sub>O (15 min, RT).

**Stability:** Upon reconstitution, aliquote and freeze in liquid nitrogen; reconstituted antibody can be stored frozen at -80°C up to 1 year. Thaw aliquots at 37°C. Thawed aliquots may be stored at 4°C up to 3 months.

**Avoid repeated freeze / thaw cycles**

**Positive Control:** Cell lysate from untreated SW620 cells.

**Immunoblotting:** 1 µg/ml for AP/BCIP/NBT (MTT) detection; 0.1 µg/ml for HRPO/ECL detection

**Immunoprecipitation** ND

**Immunocytochemistry** ND

**ELISA:** use at 0.05 µg/ml

**All products are supplied for research and investigational use only. Not for use in humans.**