

## Anti-STAT5

Rabbit Polyclonal Antibody

**Catalog # S56-63BR**

Lot # R027-9

### Cited Applications

- Western blot (1:1000 dilution)

Ideal working dilutions for each application should be empirically determined by the investigator.

### Specificity

Recognizes the STAT5 protein

### Cross Reactivity

- Western blot STAT5 from human cells

STAT5 from other species may also be detectable

### Host

Rabbit

### Immunogen

Synthetic peptide corresponding to amino acids 692-696 of human STAT5 (protein accession number P42229)

### Formulation

PBS pH 7.4, 0.02% sodium azide, 50% glycerol

### Stability

Store at 4°C (add 0.1% NaN<sub>3</sub>) for several months, and at -20°C for longer periods. For optimal storage, aliquot antibody into smaller quantities after centrifugation and store at recommended temperature. For optimal performance, avoid repeated handling and multiple freeze/thaw cycles.

### Scientific Background

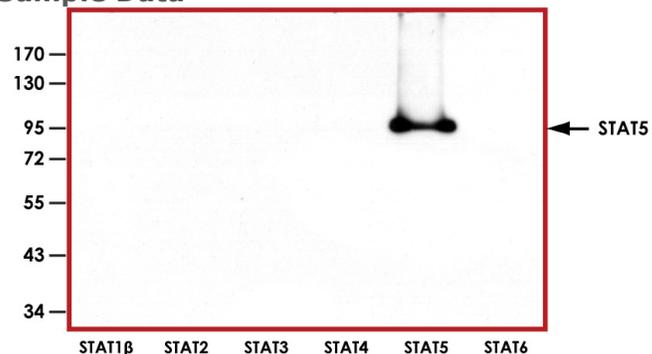
STAT5 (signal transducers and activators of transcription 5) is a member of the STAT family. It is phosphorylated by receptor associated protein kinases in response to cytokines and growth factors (1). The differentiation of T helper cells is regulated by members of the STAT family. In BCR-ABL-positive cells, STAT5 is constitutively activated by tyrosine phosphorylation. STAT5 activation results in upregulation of Bcl-X<sub>L</sub> and increased resistance to induction of apoptosis. STAT5 is involved in expression and growth hormone-mediated sexually dimorphic regulation of cytochrome P450 3A10/lithocholic acid 6 beta-hydroxylase (2).

### References

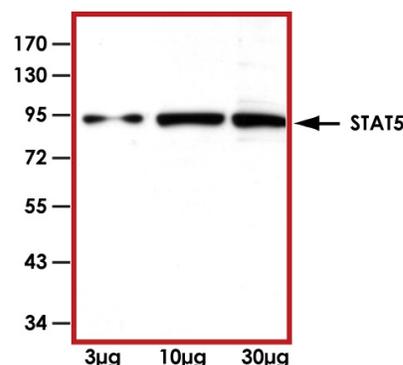
1. Wang, D. et al: Naturally occurring dominant negative variants of Stat5. *Molec. Cell Biol.* 16: 6141-6148, 1996.
2. A Subramanian et al: STAT 5 and NF- $\kappa$ B are involved in expression and growth hormone-mediated sexually dimorphic regulation of cytochrome P450 3A10/lithocholic acid 6beta-hydroxylase. *Nucleic Acids Res.* 1998; 26(9): 2173-2178.

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### Sample Data



Representative western blot with Anti-STAT5 (1:1000) using 5 ng of human recombinant STAT1 $\beta$ , STAT2, STAT3, STAT4, STAT5 and STAT6.



Representative western blot with Anti-STAT5 (1:1000) using 3µg, 10µg and 30µg of K562 cell lysate.

## Anti-STAT5

Rabbit Polyclonal Antibody

Catalog Number

S56-63BR

Specific Lot Number

R027-9

Purification

Affinity chromatography

Concentration

1.0 µg/µL

Stability

1yr at -20°C from date of shipment

Storage & Shipping

Store product at -20°C. For optimal storage, aliquot antibody into smaller quantities after centrifugation and store at recommended temperature. For optimal performance, avoid repeated handling and multiple freeze/thaw cycles. Product shipped on ice packs.