

# Stat5b Antibody



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<b>Applications:</b> W, IP	<b>Reactivity:</b> H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 90	<b>Source/Isotype:</b> Rabbit	<b>UniProt ID:</b> #P51692	<b>Entrez-Gene Id:</b> 6777
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## Product Usage Information

### Application

Western Blotting  
Immunoprecipitation

### Dilution

1:1000  
1:100

## Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

## Specificity/Sensitivity

Stat5b recognizes endogenous levels of total Stat5b protein. This antibody does not cross-react with Stat5a protein.

## Species predicted to react based on 100% sequence homology

Monkey, Bovine, Pig

## Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human Stat5b protein. Antibodies are purified by protein A and peptide affinity chromatography.

## Background

Stat5 is activated in response to a wide variety of ligands, including IL-2, GM-CSF, growth hormone, and prolactin. Phosphorylation at Tyr694 is obligatory for Stat5 activation (1,2). This phosphorylation is mediated by Src upon erythropoietin stimulation (3). Stat5 is constitutively active in some leukemic cell types (4). Phosphorylated Stat5 is found in some endothelial cells treated with IL-3, which suggests its involvement in angiogenesis and cell motility (5). Stat5a and Stat5b are independently regulated and activated in various cell types. For instance, interferon treatment predominantly activates Stat5a in U-937 cells and Stat5b in HeLa cells (6).

## Background References

1. Gouilleux, F. et al. (1994) *EMBO J* 13, 4361-9.
2. Wakao, H. et al. (1994) *EMBO J* 13, 2182-91.
3. Okutani, Y. et al. (2001) *Oncogene* 20, 6643-50.
4. Demoulin, J.B. et al. (1999) *J Biol Chem* 274, 25855-61.
5. Dentelli, P. et al. (1999) *J Immunol* 163, 2151-9.
6. Meinke, A. et al. (1996) *Mol Cell Biol* 16, 6937-44.

## Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

## Western Blot Buffer

**IMPORTANT:** For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween@ 20 at 4°C with gentle shaking, overnight.

## Applications Key

**W:** Western Blotting **IP:** Immunoprecipitation

## Cross-Reactivity Key

**H:** Human **M:** Mouse **R:** Rat

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