

# STAT1 Polyclonal Antibody

**CATALOG #:** 3133R-100  
**AMOUNT:** 100 µg  
**LOT #:** \_\_\_\_\_  
**HOST:** Rabbit  
**IMMUNOGEN:** Synthetic peptide surrounding amino acid 672 of rat Stat1 (ID# BV-B53)  
**SPECIES REACTIVITY:** human, mouse, rat

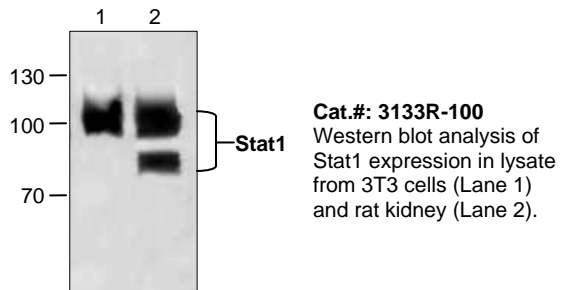
**FORMULATION:**  
 100 µg (0.5 mg/ml) affinity purified rabbit polyclonal antibody in phosphate-buffered saline (PBS) containing 30% glycerol, 0.5% BSA, and 0.01% thimerosal.

**STORAGE CONDITIONS:**  
 Store at -20°C. For long-term storage, aliquot and freeze at -70°C. Avoid repeated freeze/thaw cycles.

**BACKGROUND:**  
 STATs (signal transducers and activators of transcription) are a family of cytoplasmic latent transcription factors that are activated to regulate gene expression in response to a large number of extracellular signalling peptides including cytokines, interferons, and growth factors. After phosphorylation by JAK tyrosine kinases, STATs enter the nucleus to regulate transcription of many different genes. Among the seven STATs (Stat1, Stat2, Stat3, Stat4, Stat5a, Stat5b, and Stat6). Stat1, Stat3, Stat5a and Stat5b have wide activation profiles. Stat1 is activated by many different ligands including IFN family (IFN-a, IFN-b, IFN-r, and IL-10), gp130 family (IL-6, IL-11, LIF, CNTF, and G-CSF-1), and receptor tyrosine kinases (EGF, PDGF, and CSF-1). Stat1 has two forms, the 91 kDa STAT1 $\alpha$  and the 84 kDa STAT1 $\beta$ , which are coded by the same gene with splicing variant.

**SPECIFICITY:**  
 The antibody recognizes both alpha (91 kDa) and beta (84 kDa) subunits of STAT1 in samples from human, mouse, and rat origins. Other species have not been determined.

**APPLICATION AND USAGE:**  
 The antibody can be used in Western blotting (0.5-4 µg/ml). However, the optimal conditions should be determined individually. Blocking peptide (Cat.# 3133RBP-50) is available separately.



**RELATED PRODUCTS:**

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  - Apoptosis Inducers and Set
  - Apoptosis siRNA Vectors
- Cell Fractionation System
  - Mitochondria/Cytosol Fractionation Kit
  - Nuclear/Cytosol Fractionation Kit
  - Membrane Protein Extraction Kit
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  - Mammalian Cell Extraction Kit
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  - Glutathione & Nitric Oxide Fluorometric & Colorimetric Assay Kits
- Signal Transduction
  - cAMP & cGMP Assay Kits
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  - CETP Activity Assay & Drug Discovery Kits
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  - Mitochondrial & Genomic DNA Isolation Kits
  - 5 Minutes DNA Ligation Kit
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  - $\beta$ -Galactosidase Staining Kit & Luciferase Reporter Assay Kit
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