

# STAT4 Polyclonal Antibody

**CATALOG #:** 3471R-100  
**AMOUNT:** 100 µg  
**LOT #:** \_\_\_\_\_  
**HOST:** Rabbit  
**IMMUNOGEN:** Synthetic peptide surrounding amino acid 732 of rat Stat4 (ID# BV-B59)  
**SPECIES REACTIVITY:** human, mouse, rat, pig

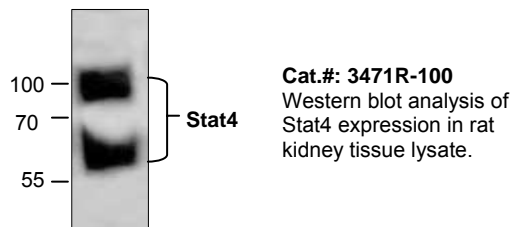
**FORMULATION:**  
 100 µg (0.5 mg/ml) affinity purified rabbit polyclonal antibody in phosphate-buffered saline (PBS) containing 30% glycerol, 0.5% BSA, and 0.01% thimerosal.

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

**BACKGROUND:**  
 Membrane receptor signaling by various ligands induces activation of Jak kinases which then leads to tyrosine phosphorylation of the various Stat transcription factors. Stat1 and Stat2 are induced by IFN-α and form a heterodimer which is part of the ISGF3 transcription factor complex. Although early reports indicate Stat3 activation by EGF and IL-6, it has been shown that Stat3β appears to be activated by both while Stat3α is activated by EGF, but not by IL-6. Highest expression of Stat4 is seen in testis and myeloid cells. IL-12 has been identified as an activator of Stat4. Stat5 is activated by prolactin and by IL-3. Stat6 is involved in IL-4 activated signaling pathways.

**SPECIFICITY:**  
 The antibody recognizes ~97 kDa Stat4 in samples from human, mouse, and rat origins. A ~60 kDa band can also be detected, presumably to be the cleavage fragment of Stat4.

**APPLICATION AND USAGE:**  
 The antibody can be used in Western blotting (0.5-4 µg/ml). However, the optimal concentrations should be determined individually. Blocking peptide (Cat.# 3471RBP-50) is available separately.



**RELATED PRODUCTS:**

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  - Annexin V Kits & Bulk Reagents
  - Caspase Assay Kits & Reagents
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  - Nuclear Apoptosis Kits & Reagents
  - Apoptosis Inducers and Set
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- Cell Fractionation System
  - Mitochondria/Cytosol Fractionation Kit
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  - Membrane Protein Extraction Kit
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  - Glutathione & Nitric Oxide Fluorometric & Colorimetric Assay Kits
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  - CETP Activity Assay & Drug Discovery Kits
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