

## STAT4 Polyclonal Antibody

<b>CATALOG NO:</b>	3471R-30T	30 µg (Trial size)
	3471R-100	100 µg
<b>HOST:</b>	Rabbit	
<b>IMMUNOGEN:</b>	Synthetic peptide surrounding amino acid 732 of rat Stat4 (ID# BV-B59)	
<b>SPECIES REACTIVITY:</b>	Human, Mouse, Rat, Pig	

### FORMULATION:

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/defrost cycles.

### BACKGROUND:

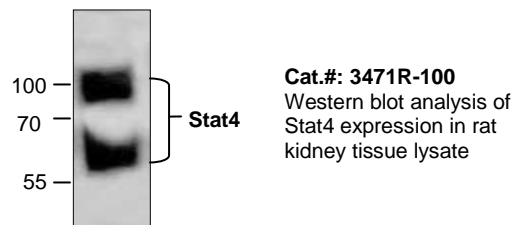
Membrane receptor signaling by various ligands induces activation of Jak kinases which then leads to tyrosine phosphorylation of the various Stat transcription factors. Stat1 and Stat2 are induced by IFN- $\alpha$  and form a heterodimer which is part of the ISGF3 transcription factor complex. Although early reports indicate Stat3 activation by EGF and IL-6, it has been shown that Stat3 $\beta$  appears to be activated by both while Stat3 $\alpha$  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.



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- Nuclear/Cytosol Fractionation Kit
- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- FractionPREP Fractionation System

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