

## STAT4 (Phospho-Tyr693) Polyclonal Antibody

### ORDERING INFORMATION

**Catalog No.:** 43047

**Format:** 100ul at 1.0mg/ml in PBS (without Mg<sup>2+</sup> and Ca<sup>2+</sup>), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Affinity-purified on phosphopeptide; non-phosphopeptide-reactive antibodies were removed by chromatography on non-phosphorylated peptide.

### BACKGROUND

Signal transducers and activators of transcription (STATs) are transcription factors that play important roles in signaling pathways induced by many different cytokines and growth factors that regulate cell growth and differentiation, the immune response, antiviral activity, and homeostasis. Their activation and mechanisms of action are examples of direct signaling to the nucleus by extracellular polypeptide ligands without the involvement of second messengers, tyrosine phosphorylation of transcription factors, or transcription factors that make direct contact with membrane-bound receptors and DNA. Since the discovery of STAT 1 and 2, the family has been expanded to seven members.

### SPECIFICATION SUMMARY

**Antigen:** Peptide sequence that includes phosphorylation site of tyrosine 693 (K-G-Y(p)-V-P) derived from human STAT4 and conjugated to KLH.

**Accession no.:** Q14765, NP\_003142.1

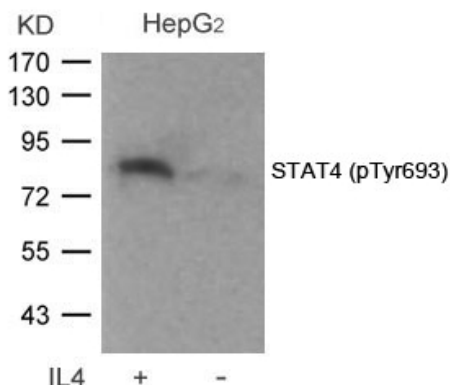
**Host Species:** Rabbit

**Specificity:** This antibody detects endogenous human, mouse, and rat STAT4 only when phosphorylated at tyrosine 693.

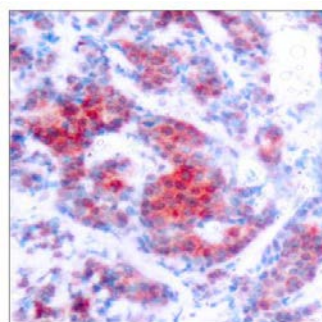
### APPLICATION

**Immunoblotting:** use at dilution of 1:500-1:1,000. **Immunohistochemistry:** use at dilution of 1:50-1:100.

A band of ~85kDa is detected.



Detection of STAT4 (phospho-Tyr693) in extracts HepG2 cells treated or untreated with IL-4.



Detection of STAT4 (phospho-Tyr693) in paraffin-embedded human breast carcinoma tissue.

These are recommended working dilutions. Enduser should determine optimal dilutions for their applications.

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### DILUTION INSTRUCTIONS

Dilute in PBS or medium that is identical to that used in the assay system.

### STORAGE AND STABILITY

This antibody is stable for at least one (1) year at -20°C. Can be stored at 4°C for short-term use.

*For in vitro investigational use only. Not intended for therapeutic or diagnostic applications.*