

## Mouse anti-phosphoSTAT5

Publication Part no. MAN0005806

Rev. 1.00

Catalog Number: 336000

Store at 2 to 8°C (short-term), or -20°C (long-term)

**Clonality:** Monoclonal  
**Concentration:** 0.5 mg/mL  
**Quantity:** 50 µg  
**Volume:** 100 µL

**Host/Class:** Mouse IgG<sub>1κ</sub>  
**Reactivity:** Human, mouse, and rat

### Product Description

STATs (signal transducers and activators of transcription) were originally identified as DNA-binding proteins essential to interferon IFN $\alpha$ - and IFN $\gamma$ -regulated gene expression. Since then, several additional mammalian STATs, a *Drosophila* STAT (D-STAT or Marelle), and a STAT-like protein from *Dictyostelium discoideum* have been recognized. Mouse anti-PhosphoSTAT5 (clone: ST5P-4A9) reacts specifically with the tyrosine phosphorylated form of STAT5a and STAT5b proteins. It does not cross-react appreciably with the corresponding tyrosine phosphorylated forms of other STAT proteins or with other endogenous phosphotyrosine containing proteins. The specificity of ST5P-4A9 was confirmed by Western blot analysis of STAT5 transfected 293 cells expressing either wild type or inactive JAK1 kinase. Specific recognition of endogenous tyrosine-phosphorylated STAT5 was confirmed by Western blot analysis of A431 and K562 cell lysates prepared before and after treatment with epidermal growth factor.

### Product Specifications

**Immunogen:** A synthetic tyrosine phosphorylated peptide encompassing the conserved C-terminal tyrosine phosphorylation site (Y694) of murine STAT5. This peptide is conserved in human, bovine, sheep, and rat STAT5 proteins

**Clone/PAD:** ST5P-4A9

**Lot:** See product label

### Product Applications

Application	Species	Concentration
ELISA	Immunogen	0.1–1 µg/mL
Western Blotting	Human, mouse, and rat	1–3 µg/mL

### Storage and Handling

Store at 2 to 8°C for up to one month. Aliquot and store at -20°C for long term storage. Avoid repeated freezing and thawing.



**Figure 1 Mammalian STAT proteins share several conserved structural and functional domains as illustrated.**

- (1) Conserved amino terminal domain
- (2) DNA binding domain
- (3) SH3-like region
- (4) Conserved SH2 domain responsible for recruitment to the receptor, interaction with JAKs, STAT dimerization
- (5) Conserved tyrosine residue whose phosphorylation is required for dimerization and DNA binding
- (6) Carboxy terminal activation domain

**For research use only. Not for use in diagnostic procedures.**

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## Stability

When stored as instructed, expires one year from date of receipt unless otherwise indicated on product label.

## Storage Buffer

Phosphate buffered saline (PBS), pH 7.4, containing 0.1% sodium azide.

**Caution:** Sodium azide is an extremely toxic and dangerous compound particularly when combined with acids or metals. Properly dispose of solutions containing sodium azide.








## Safety Data Sheets (SDS)

Safety Data Sheets (SDSs) are available at [www.lifetechnologies.com/support](http://www.lifetechnologies.com/support).

## Certificate of Analysis

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### Explanation of symbols

Symbol	Description	Symbol	Description	Symbol	Description
	Manufacturer		Catalog number		Batch code
	Use by		Temperature limitation		
	Consult instructions for use		Caution, consult accompanying documents		

### Limited Use Label License: Research Use Only

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5 November 2012