

**Mouse anti-pan STAT5**

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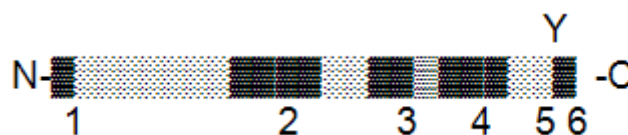
**Store at 2 to 8°C (short-term), or -20°C (long-term)**

**Clonality:** Monoclonal  
**Concentration:** 0.5 mg/mL  
**Quantity:** 100 µg  
**Volume:** 200 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 two novel DNA-binding proteins (STAT1 and STAT2) which were found to play central roles in interferon IFN $\alpha$ - and IFN $\gamma$ -regulated gene expression. Following the identification of these first two family members, five additional mammalian STAT proteins have been cloned, and characterized including: STAT3, STAT4, STAT5a, STAT5b, and STAT6. More recently a putative Drosophila STAT protein termed D-STAT or Marelle was described. All STAT proteins share several conserved structural and functional domains which are illustrated in figure 1. This monoclonal antibody reacts specifically with both the STAT5a and STAT5b proteins. In addition, the antibody can be used to detect both the un-phosphorylated and phosphorylated forms of STAT5. Cross-reactivity with other endogenous STAT isoforms has not been observed. During development reactivity was confirmed with human, mouse, and rat.



**Figure 1**

- (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

**Product Specifications**

**Immunogen:** A peptide corresponding to a conserved amino acid sequence found near the carboxy-terminus of murine STAT5. This peptide encompasses the conserved C-terminal tyrosine phosphorylation site (Y-694) of murine STAT5

**Clone/PAD:** ST5-8F7

**Lot:** See product label

**Product Applications**

Application	Concentration
ELISA	0.1–1 µg/mL
Western Blotting	1–3 µg/mL

**Lysates Tested**

Cell lysates derived from NIH 3T3 cells, A431 cells, MCF-7 cells, HeLa cells, and 293 cells transfected with either a STAT5 expression vector alone or together with a Jak1 expression vector.

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

## Storage and Handling

This antibody should be stored at 2 to 8°C for up to one month. For long term storage, -20°C is recommended; however, repeated freezing and thawing cycles should be avoided.

## 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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