

## Anti-Stat5 (Tyr-694), Phosphospecific Antibody Catalog # AN1981

### Specification

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#### Anti-Stat5 (Tyr-694), Phosphospecific Antibody - Product Information

Application	WB
Primary Accession	<a href="#">P42229</a>
Reactivity	Bovine
Host	Mouse
Clonality	Mouse Monoclonal
Isotype	IgG1
Calculated MW	90647

#### Anti-Stat5 (Tyr-694), Phosphospecific Antibody - Additional Information

Gene ID	6776
<b>Other Names</b>	
Signal transducer and activator of transcription 5A, Stat5A	

#### Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

#### Precautions

Anti-Stat5 (Tyr-694), Phosphospecific Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

#### Shipping

Blue Ice

#### Anti-Stat5 (Tyr-694), Phosphospecific Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

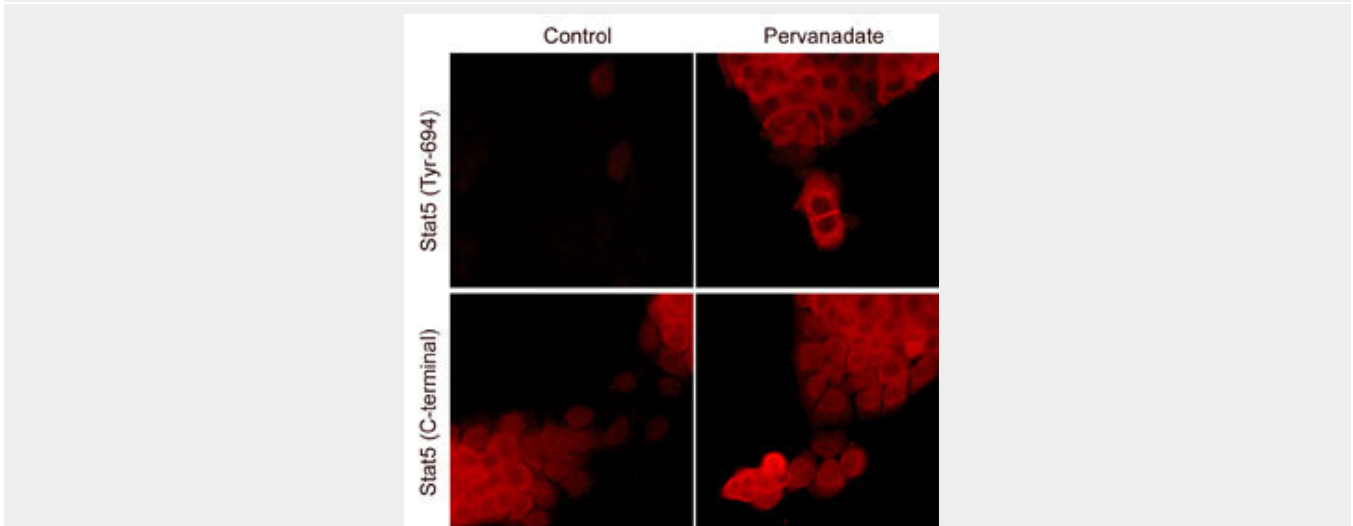
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### Anti-Stat5 (Tyr-694), Phosphospecific Antibody - Images





Western blot analysis of human A431 cells untreated (lanes 1, 3, 5, 7, & 9) or treated with EGF (100 nM) for 60 min (lanes 2, 4, 6, 8, & 10). The blots were probed with anti-Stat1 (lanes 1 & 2), anti-Stat1 (Tyr-701) (lanes 3 & 4), anti-Stat3 (lanes 5 & 6), anti-Stat5 (lanes 7 & 8), and anti-Stat5 (Tyr-694) (lanes 9 & 10).



Immunocytochemical labeling of Stat5 in control and pervanadate-treated A431 cells. The cells were labeled with mouse monoclonal Stat5 (SM2511) or Stat5 (Tyr-694) (SM1481) antibodies, then the antibodies were detected using appropriate secondary antibody conjugated to DyLight® 594.

### Anti-Stat5 (Tyr-694), Phosphospecific Antibody - Background

The stat proteins function both as cytoplasmic signal transducers and as activators of transcription. Stat5 is activated in response to a wide variety of ligands including IL-2, GM-CSF, growth hormone, and prolactin. Phosphorylation at Tyr-694 is required for Stat5A activation. Stat5 has been found to be constitutively active in some leukemic cell types. Phosphorylated Stat5 is found in some endothelial cells treated with IL-3, which suggests its involvement in angiogenesis and cell motility. Both Stat5A (Tyr-694) and Stat5B (Tyr-699) are independently regulated and activated in various cell types. For instance, both isoforms are activated in response to IFN $\alpha$  in B cells, but only Stat5A is phosphorylated in response to IFN $\alpha$  in HeLa cells.