

#8215 Store at -20C

## PhosphoPlus® Stat5 (Tyr694) Antibody Duet



**Cell Signaling**  
TECHNOLOGY®

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**For Research Use Only. Not for Use in Diagnostic Procedures.**

Product Includes	Product #	Quantity	Mol. Wt.	Isotype/Source
Stat5 (D2O6Y) Rabbit mAb	94205	100 µl	90 kDa	Rabbit IgG
Phospho-Stat5 (Tyr694) (D47E7) XP® Rabbit mAb	4322	100 µl	90 kDa	Rabbit IgG

Please visit [cellsignal.com](https://www.cellsignal.com) for individual component applications, species cross-reactivity, dilutions, protocols, and additional product information.

### Description

PhosphoPlus® Duets from Cell Signaling Technology (CST) provide a means to assess protein activation status. Each Duet contains an activation-state and total protein antibody to your target of interest. These antibodies have been selected from CST's product offering based upon superior performance in specified applications.

### Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. *Do not aliquot the antibody.*

### Background

Stat5 is activated in response to a wide variety of ligands, including IL-2, GM-CSF, growth hormone, and prolactin. Phosphorylation at Tyr694 is obligatory for Stat5 activation (1,2). This phosphorylation is mediated by Src upon erythropoietin stimulation (3). Stat5 is constitutively active in some leukemic cell types (4). Phosphorylated Stat5 is found in some endothelial cells treated with IL-3, which suggests its involvement in angiogenesis and cell motility (5). Stat5a and Stat5b are independently regulated and activated in various cell types. For instance, interferon treatment predominantly activates Stat5a in U-937 cells and Stat5b in HeLa cells (6).

### Background References

1. Gouilleux, F. et al. (1994) *EMBO J* 13, 4361-9.
2. Wakao, H. et al. (1994) *EMBO J* 13, 2182-91.
3. Okutani, Y. et al. (2001) *Oncogene* 20, 6643-50.
4. Demoulin, J.B. et al. (1999) *J Biol Chem* 274, 25855-61.
5. Dentelli, P. et al. (1999) *J Immunol* 163, 2151-9.
6. Meinke, A. et al. (1996) *Mol Cell Biol* 16, 6937-44.

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