

Product datasheet for **TA389219**

Phospho-STAT5A (pTyr694) Mouse Antibody [Clone ID: M148]

Product data:

Product Type:	Primary Antibodies
Clone Name:	M148
Applications:	ICC, WB
Recommended Dilution:	WB: 1:1000 ICC: 1:100
Reactivity:	Human, Rat, Mouse
Host:	Mouse
Isotype:	IgG1
Immunogen:	Clone (M148) was generated from a synthetic peptide (coupled to KLH) corresponding to amino acid residues around tyrosine 694 of human Stat5A. This peptide sequence is identical to tyrosine 699 in human Stat5B, and has high homology to the conserved tyrosine site in rat and mouse Stat5A/B.
Specificity:	The antibody detects a 92 kDa* band corresponding to Stat5A on SDS-PAGE immunoblots of human A431 cells treated with EGF, but does not detect this band in control cells.
Formulation:	PBS + 1 mg/ml BSA, 0.05% NaN ₃ and 50% glycerol
Concentration:	lot specific
Purification:	Protein A Purified
Conjugation:	Unconjugated
Storage:	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C.
Stability:	After date of receipt, stable for at least 1 year at -20°C.
Predicted Protein Size:	92
Database Link:	P42229



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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 α in B cells, but only Stat5A is phosphorylated in response to IFN α in HeLa cells.

Note:

Protein G purified tissue culture supernatant.