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Anti-Stat5 (Tyr-694), Phosphospecific Antibody

Catalog # AN1981

Product Information

Application	WB, ICC
Primary Accession	P42229
Host	Mouse
Clonality	Mouse Monoclonal
Isotype	IgG1
Clone Names	M148
Calculated MW	90647

Additional Information

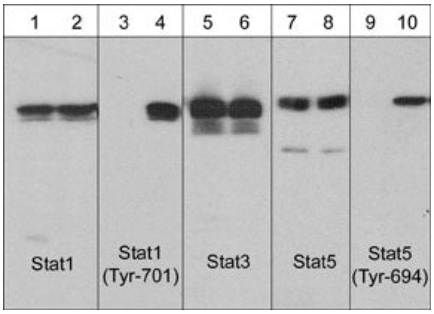
Gene ID	6776
Other Names	Signal transducer and activator of transcription 5A, Stat5A
Dilution	WB~~1:1000 ICC~~N/A
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Anti-Stat5 (Tyr-694), Phosphospecific Antibody is for research use only and not for use in diagnostic or therapeutic procedures.
Shipping	Blue Ice

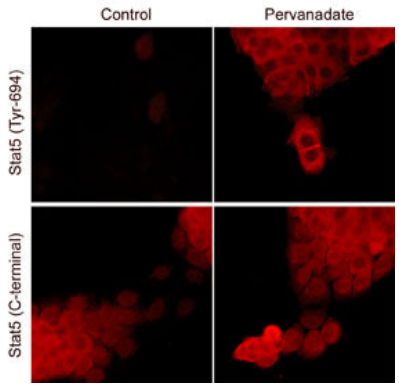
Background

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

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) (AN1981) antibodies, then the antibodies were detected using appropriate secondary antibody conjugated to DyLight® 594.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.