Stat5 (C-terminal region)

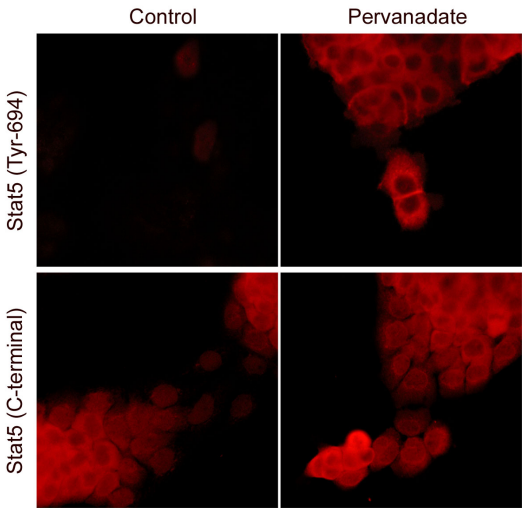
Cat. #	SM2511
Host	Mouse Monoclonal IgG1
Size	100 µl

Background:

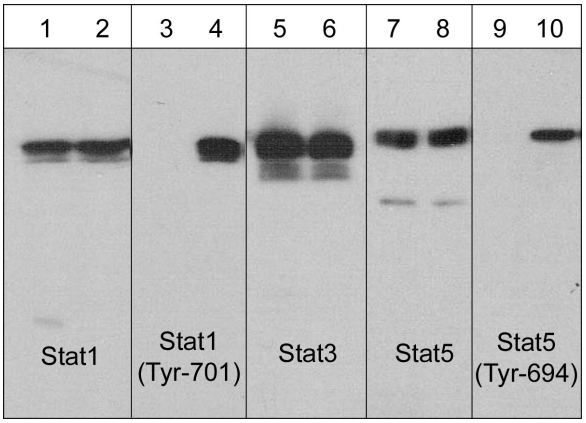
The stat proteins function both as cytoplasmic signal transducers and as activators of transcription. Stat5 is activated in response to a wide variety of ligands including IL-2, GM-CSF, growth hormone, and prolactin. Phosphorylation at Tyr-694 is required for Stat5A activation. Stat5 has been found to 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 Stat5 alpha is phosphorylated in response to IFN-alpha in HeLa cells.

References

Gouilleux, F. et al. (1994) EMBO J. 13:4361.
Wakao, H. et al. (1994) EMBO J. 13:2182.
Meinke, A. et al. (1996) Mol. Cell. Biol. 16:6937-6944.
Darnell, J.E. (1997) Science 277:1630.



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.



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).

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Cat. #	SM2511
Host	Mouse Monoclonal IgG1
Size	100 µl

Immunogen:

Clone (M251) was generated from a recombinant protein that included amino acid residues in the C-terminal region of human Stat5A. This sequence has high homology to the conserved regions in rat and mouse Stat5A and B.

Buffer and Storage:

Mouse monoclonal antibody purified with protein A chromatography is supplied in 100µl phosphate-buffered saline, 50% glycerol, 1 mg/ml BSA, and 0.05% sodium azide. Store at –20°C. Do not aliquot. Stable for 1 year.

Applications:

WB	1:1000
ELISA	1:2000
ICC	1:100

End user should determine optimal dilution for their particular applications and experiments.
Western blot membranes were incubated with diluted antibody in 5% non-fat milk, PBS, 0.04% Tween20 for 1hour at room temperature.

Specificity:

The antibody detects a 92 kDa* band corresponding to Stat5A on SDS-PAGE immunoblots of human A431 cells.
*All molecular weights (MW) are confirmed by comparison to Bio-Rad Rainbow Markers and to western blot mobilities of known proteins with similar MW.

Related Products:

SM2491 Stat1 Mouse Monoclonal
SM1351 Stat1 (Tyr-701), phospho-specific Mouse Monoclonal
SM2631 Stat3 (N-terminal region) Mouse Monoclonal
SM2511 Stat5 (C-terminal region) Mouse Monoclonal
SM1481 Stat5 (Tyr-694), phospho-specific Mouse Monoclonal
PM1381 p38a MAP Kinase (C-terminal) Mouse Monoclonal

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