

Mouse Monoclonal Antibody to

STAT5 A/B (phospho-Tyr 694/699)

clone 5G4

Order No.: 0121-100/STAT5-5G4
Size (µg) 100
Lot No.: 0121S



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06/270808F

Isotype	Species	Reactivity	Applications	Mol. Weight	Ref. Cell Line	Epitope	Immunogen
IgG1	human		WB, ELISA, IHC, ICC	95 kDa	MCF-7	phosphotyrosine 694 (A) phosphotyrosine 699 (B) ... V D G pY V K P ...	phosphopeptide conjugated to KLH

Background and Specificity:

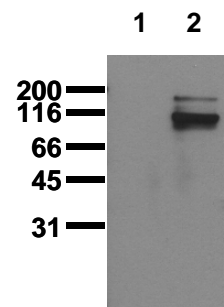
The STAT proteins serve as both cytoplasmic signal transducers and nuclear activators of transcription. STATs are mediators involved in cytokine signalling. In response to a specific cytokine signal, STAT proteins are phosphorylated on conserved tyrosine residues. Phosphorylated STAT proteins dimerize via their SH2 domains and move to the nucleus. The STAT dimers bind to specific DNA elements resulting in transcriptional regulation of downstream target genes. STAT5 is activated in response to prolactine, growth hormone, GM-CSF, and IL-2.

Mab STAT5-5G4 specifically recognizes STAT5A phosphorylated at Tyr 694 and STAT5B phosphorylated at Tyr 699. The antibody does not crossreact with the non-phosphorylated form of STAT5 nor with unrelated tyrosine-phosphorylated proteins. Mab STAT5-5G4 is suitable for Western blot and ELISA applications.

Related Products

- mab to STAT1 (phospho-Ser 727)**
#0176-100/STAT1-12C5
- mab to STAT3 (phospho-Tyr 705)**
#0036-100/STAT3-9E12
- mab to STAT3 (phospho-Ser 727)**
#0145-100/STAT3-23G5
- mab to STAT6 (phosph-Tyr 641)**
#0079-100/STAT6-16E12
- mab to STAT6 (aa 630-650)**
#0063-100/STAT6-8C12

Purification:	The antibody was purified from serum-free cell culture supernatant by subsequent thiophilic adsorption and size exclusion chromatography.
Formulation:	liquid; 0.1mg/ml in in PBS/0.09% Na-Azide/PEG and Sucrose/50% Glycerol
Reconstitution:	
Stability:	For long-term storage (up to 1 year) aliquote and store at -20°C. At 4°C, aliquots may be stored up to 3 months. Avoid repeated freeze / thaw cycles.
Positive Control:	#0882: Cell lysate from pervanadate-treated MCF-7 cells
Immunoblotting:	0.5 µg/ml for HRPO/ECL detection Recommended blocking buffer: Casein/Tween 20 based blocking and blot incubation buffer, e.g. nanoTools product #3031-500/CPPT or #3031-3000/CPPT.
Immunoprecipitation:	ND
Immunocytochemistry:	ND
ELISA:	use at 0.05 µg/ml



Activation of STAT5 A/B in MCF-7 cells

Whole cell lysates of untreated (lane 1) and pervanadate-treated (lane 2) MCF-7 cells were applied to SDS-PAGE and transferred to a PVDF membrane. The immunoblot was probed with mab STAT5-5G4 at 0.5 µg/ml for 1h at 15-22°C and developed by ECL (exposure time: 5 sec).

All products are supplied for research and investigational use only. Not for use in humans or laboratory animals.