

AM00148FC-N

Monoclonal Antibody to STAT3 pTyr705 - FITC

Alternate names:	APRF, Acute-phase response factor, STAT-3, Signal transducer and activator of transcription 3
Quantity:	0.1 mg
Concentration:	0.5 mg/ml
Background:	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. STAT3 is activated by tyrosine phosphorylation at residue Tyr 705 in cells treated with interleukin 6 or EGF. Activated STAT3 can bind to DNA either as homodimer or as heterodimer with STAT1.
Uniprot ID:	P40763
NCBI:	NP_003141.2
GeneID:	6774
Host / Isotype:	Mouse / IgG1
Recommended Isotype Controls:	SM10F (for use in human samples)
Clone:	9E12
Immunogen:	Phosphopeptide conjugated to KLH Epitope: Phosphotyrosine 705...A P pY L K...
Format:	State: Liquid purified IgG fraction Purification: Subsequent Thiophilic Adsorption and Size Exclusion Chromatography Buffer System: PBS containing 0.09% Sodium Azide, PEG and Sucrose. Label: FITC
Applications:	Immunocytochemistry: 1-10 µg/ml. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Molecular Weight:	92 kDa
Specificity:	This antibody specifically recognizes STAT3 phosphorylated at Tyr705. The antibody does not crossreact with the non-phosphorylated form of STAT3 nor with unrelated tyrosine-phosphorylated proteins. Species: Human, Mouse and Dog. Other species not tested.
Add. Information:	For Immunoblotting, Immunoprecipitation or ELISA, clone 9E12 is available as purified or Biotin-labelled antibody (Cat.no. AM00148PU-N or AM00148BT-N).

Storage:

Aliquote and freeze in liquid nitrogen.
Avoid repeated freezing and thawing.
The antibody is stable at -80°C for one year.
Thaw aliquots at 37°C. Thawed aliquots may be stored at 2-8°C up to 3 months.