

Product datasheet for **AM00148FC-N**

STAT3 pTyr705 Mouse Monoclonal Antibody [Clone ID: 9E12]

Product data:

| | |
|-------------------------|---|
| Product Type: | Primary Antibodies |
| Clone Name: | 9E12 |
| Applications: | IF |
| Recommended Dilution: | Immunocytochemistry: 1-10 µg/ml. |
| Reactivity: | Canine, Human, Mouse |
| Host: | Mouse |
| Isotype: | IgG1 |
| Clonality: | Monoclonal |
| Immunogen: | Phosphopeptide conjugated to KLH Epitope: Phosphotyrosine 705...A P pY L K... |
| 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. |
| Formulation: | PBS containing 0.09% Sodium Azide, PEG and Sucrose. Label: FITC State: Liquid purified IgG fraction |
| Concentration: | lot specific |
| Purification: | Subsequent Thiophilic Adsorption and Size Exclusion Chromatography |
| Conjugation: | FITC |
| 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. |
| Predicted Protein Size: | 92 kDa |
| Gene Name: | signal transducer and activator of transcription 3 |
| Database Link: | Entrez Gene 6774 Human P40763 |



[View online »](#)

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.

Synonyms:

STAT-3, Acute-phase response factor, APRF

Note:

For Immunoblotting, Immunoprecipitation or ELISA, clone 9E12 is available as purified or Biotin-labelled antibody (Cat.no. AM00148PU-N or AM00148BT-N).