

## Phospho-Stat3-Y705

**Reactivity:**Human

**Tested applications:**WB IF

**Recommended Dilution:**WB 1:500 - 1:2000 IF 1:50 - 1:200

**Calculated MW:**92kDa

**Observed MW:**Refer to Figures

**Immunogen:**

A phospho specific peptide corresponding to residues surrounding Tyr705 of human Stat3

**Storage Buffer:**

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

**Concentration:**

koq

**Synonym:**

STAT3; APRF; HIES; FLJ20882; MGC16063;

**Catalog #:**AP0070

**Antibody Type:**

Polyclonal Antibody

**Species:**Rabbit

**Gene ID:**6774

**Isotype:**IgG

**Swiss Prot:**P40763

**Purity:**Affinity purification

For research use only.

**Background:**

The Stat3 transcription factor is an important signaling molecule for many cytokines and growth factor receptors (1) and is required for murine fetal development (2). Stat3 is constitutively activated in a number of human tumors (3,4) and possesses oncogenic potential (5) and anti-apoptotic activities (3). Stat3 is activated by phosphorylation at Tyr705, which induces dimerization, nuclear translocation, and DNA binding (6,7). Transcriptional activation seems to be regulated by phosphorylation at Ser727 through the MAPK or mTOR pathways (8,9). Stat3 isoform expression appears to reflect biological function as the relative expression levels of Stat3 (86 kDa) and Stat3 (79 kDa) depend on cell type, ligand exposure, or cell maturation stage (10). It is notable that Stat3 lacks the serine phosphorylation site within the carboxy-terminal transcriptional activation domain (8).

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