

Product datasheet for **TA372964**

STAT3 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 200-1000 WB positive control: HepG2 cell lysate
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Fusion protein of human STAT3
Formulation:	pH7.4 PBS, 0.05% NaN ₃ , 40% Glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C.
Stability:	1 year
Predicted Protein Size:	88 kDa
Gene Name:	signal transducer and activator of transcription 3
Database Link:	Entrez Gene 6774 Human P40763



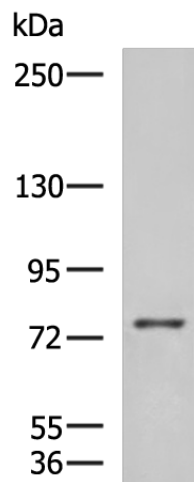
[View online »](#)

Background:

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

Synonyms:

APRF; FLJ20882; HIES; MGC16063

Product images:

Gel: 6%SDS-PAGE
Lysate: 40 μ g
Lane: HepG2 cell lysate
Primary antibody: TA372964 (STAT3 Antibody) at dilution 1/500
Secondary antibody: Goat anti rabbit IgG at 1/5000 dilution
Exposure time: 1 minute