

Product datasheet for **TA302174**

STAT3 Rabbit Polyclonal Antibody

Product data:

| | |
|-------------------------|---|
| Product Type: | Primary Antibodies |
| Applications: | IF, WB |
| Recommended Dilution: | IF: 1:10~50, WB: 1:1000 |
| Reactivity: | Human, Mouse |
| Modifications: | Phospho-specific |
| Host: | Rabbit |
| Isotype: | Ig |
| Clonality: | Polyclonal |
| Immunogen: | This STAT3 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding S727 of human STAT3. |
| Formulation: | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. |
| Concentration: | lot specific |
| Purification: | This antibody is purified through a protein A column, followed by dialysis against PBS. |
| Storage: | Store at -20°C as received. |
| Stability: | Stable for 12 months from date of receipt. |
| Predicted Protein Size: | 88068 Da |
| Gene Name: | signal transducer and activator of transcription 3 |
| Database Link: | NP_003141 Entrez Gene 20848 Mouse Entrez Gene 6774 Human |
| Background: | STAT3 is a member of the STAT protein family. In response to cytokines and growth factors, STAT family members are phosphorylated by the receptor associated kinases, and then form homo- or heterodimers that translocate to the cell nucleus where they act as transcription activators. This protein is activated through phosphorylation in response to various cytokines and growth factors including IFNs, EGF, IL5, IL6, HGF, LIF and BMP2. This protein mediates the expression of a variety of genes in response to cell stimuli, and thus plays a key role in many cellular processes such as cell growth and apoptosis. The small GTPase Rac1 has been shown to bind and regulate the activity of this protein. PIAS3 protein is a specific inhibitor of this protein. |
| Synonyms: | ADMIO; APRF; HIES |

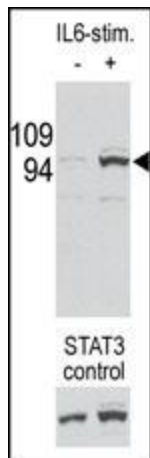


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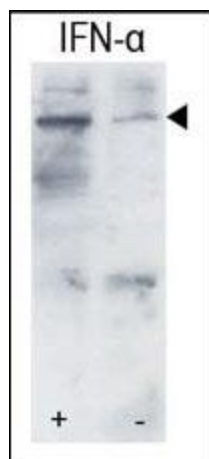
Protein Families: Druggable Genome, Transcription Factors

Protein Pathways: Acute myeloid leukemia, Adipocytokine signaling pathway, Chemokine signaling pathway, Jak-STAT signaling pathway, Pancreatic cancer, Pathways in cancer

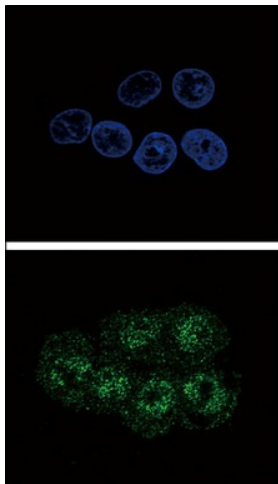
Product images:



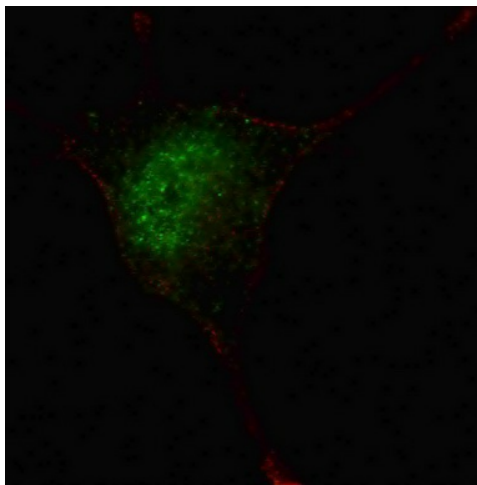
The phospho-STAT3-Ser727 Pab (Cat. #TA302174) is used in Western blot to detect Ser727-phosphorylated STAT3 in mouse liver tissue lysates collected before (-) or after (+) stimulation obtained by IL-6 injection in mouse portal vein. Data is kindly provided by Drs. E. Bard-Chapeau and G-S. Feng from the Burnham Institute (La Jolla, CA).



The phospho-STAT3-Ser727 Pab (Cat. #TA302174) is used in Western blot to detect Ser727-phosphorylated STAT3 in HL-60 tissue lysates collected before (-) or after (+) stimulation obtained by IFN-α.



Confocal immunofluorescent analysis of Phospho-STAT3-S727 Antibody (Cat#TA302174) with HepG2 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).



IF image of SY5Y cells stained with phospho-STAT3-S727 antibody. SY5Y cells were incubated with TA302174 phospho-STAT3-S727 primary antibody (1:100, 2 h at RT). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-rabbit antibody (green) was used (1:1000, 1h). Nuclei were counterstained with Hoechst 33342 (blue). Note the highly specific localization of the phospho-STAT3-S727 immunosignal to the nucleus and cytoplasm.