Anti-STAT3 Antibody

RT1591



Product Type: Rabbit polyclonal IgG, primary antibodies

Species reactivity: Human, Mouse, Rat
Applications: WB, IP, IF, IHC-P

Molecular Wt: 86/91kDa

Description: Membrane receptor signaling by various ligands, including interferons and growth hormones

such as EGF , induces activation of Jak kinases which then leads to tyrosine phosphorylation of the various Stat transcription factors. Stat1 and Stat2 are induced by IFN- α and form a heterodimer which is part of the ISGF3 transcription factor complex. Although early reports indicate Stat3 activation by EGF and IL-6, it has been shown that Stat3 β appears to be activated by both while Stat3 α is activated by EGF, but not by IL-6. Highest expresion of Stat4 is seen in testis and myeloid cells. IL-12 has been identified as an activator of Stat4. Stat5 has been shown to be activated by Prolactin and by IL-3. Stat6 is

involved in IL-4 activated signaling pathways.

Immunogen: Amino acids 50-240 of Stat3 p92 of human origin.

Positive control: 293T, K-562

Subcellular location: Cytoplasm, Nucleus

Database links: SwissProt: P40763 Human

Recommended Dilutions:

WB 1:100-1:1,000

IP 1-2 μg per 100-500 μg of total protein (1 ml of cell lysate)

IF 1:50-1:500 IHC-P 1:50-1:500

Storage Buffer: 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Storage Instruction: Store at $+4^{\circ}$ C

Purity: Immunogen affinity purified.

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Technical:0086-571-89986345

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Images

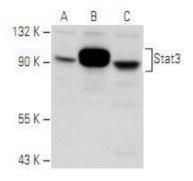


Fig1: Western blot analysis of Stat3 expression in non-transfected 293T (A), human Stat3 transfected 293T (B) and K-562 (C) whole cell lysates.

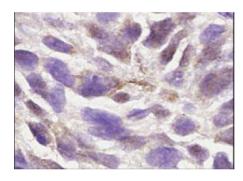


Fig2: Immunoperoxidase staining of formalin-fixed, paraffinembedded human lung tumor showing cytoplasmic and nuclear staining.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

- 1. Kaminski, K.A., et al. 2012. Interleukin 6 is not necessary for STAT3 phosphorylation and myocardial hypertrophy following short term β-adrenergic stimulation. Adv. Med. Sci. 57: 94-99
- 2. Zhang, W.N., et al. 2012. CUEDC2 (CUE domain-containing 2) and SOCS3 (suppressors of cytokine signaling 3) cooperate to negatively regulate Janus kinase 1/signal transducers and activators of transcription 3 signaling. J. Biol. Chem. 287: 382-392.