
phospho-STAT3 (Tyr705) Rabbit pAb

Catalog Number: bs-22386R

Target Protein: phospho-STAT3 (Tyr705)

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: IHC-P (1:100-500), IHC-F (1:100-500), IF (1:100-500)

Reactivity: Human, Mouse, Rat

Predicted MW: 85 kDa

Entrez Gene: 6774

Swiss Prot: P40763

Source: KLH conjugated Synthesised phosphopeptide derived from human STAT3 around the phosphorylation site of Tyr705: AP(p-Y)LK.

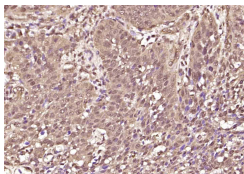
Purification: affinity purified by Protein A

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: The protein encoded by this gene 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. Mutations in this gene are associated with infantile-onset multisystem autoimmune disease and hyper-immunoglobulin E syndrome. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Sep 2015]

VALIDATION IMAGES



Paraformaldehyde-fixed, paraffin embedded (human laryngeal carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (phospho-STAT3 (Tyr705)) Polyclonal Antibody, Unconjugated (bs-22386R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

PRODUCT SPECIFIC PUBLICATIONS

[IF=8.2] Sun Li-jiao. et al. Hesperetin derivative 2a inhibits lipopolysaccharide-induced acute liver injury in mice via downregulation of circDcbl2. ACTA PHARMACOL SIN. 2023 Oct;;1-12 WB ; Mouse . 37845343

[IF=5.696] Jiang-Tao Fan. et al. Exosomal lncRNA NEAT1 from cancer-associated fibroblasts facilitates endometrial cancer progression via miR-26a/b-5p-mediated STAT3/YKL-40 signaling pathway. Neoplasia. 2021 Jul;23:692 WB ; Human . 34153644

[IF=5.714] Zhaxi Mima. et al. Blockade of JAK2 retards cartilage degeneration and IL-6-induced pain amplification in osteoarthritis. INT IMMUNOPHARMACOL. 2022 Dec;113:109340 WB ; Mouse . 36330910

[IF=6] Dhanu Gupta. et al. Modulation of Pro-Inflammatory IL-6 Trans-Signaling Axis by Splice Switching Oligonucleotides as a Therapeutic Modality in Inflammation. CELLS-BASEL. 2023 Jan;12(18):2285 WB ; Human . 37759507

[IF=5.4] Xiaobo Xu. et al. CD74-ROS1 L2026M mutant enhances autophagy through the MEK/ERK pathway to promote invasion, metastasis and crizotinib resistance in non-small cell lung cancer cells. FEBS J. 2023 Dec;; WB ; Human . 38148635