bs-1658R **[Primary Antibody]**

phospho-STAT3 (Tyr705) Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 6774 **SWISS:** P40763

Target: STAT3 (Tyr705)

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

Purification: affinity purified by Protein A

Concentration: 1mg/ml

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]

Applications: **WB** (1:500-2000)

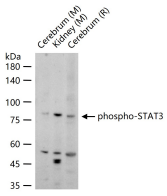
Reactivity: Mouse, Rat
(predicted: Human)

Predicted MW.: 85 kDa

Observed MW.: 83 kDa

Subcellular Location: Cytoplasm ,Nucleus

VALIDATION IMAGES



25 ug total protein per lane of various lysates (see on figure) probed with phospho-STAT3 (Tyr705) polyclonal antibody, unconjugated (bs-1658R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.

SELECTED CITATIONS

- **[IF=11.7]** Ran Cheng. et al.Intratumoral antigen-presenting cell activation by a nanovesicle for the concurrent tertiary lymphoid structure de novo neogenesis.science advances.2025 Feb 21;11(8):eadr1299. ;Mouse. 39970209
- **[IF=11.3]** Yuan Hongyu. et al. Hypoxia-induced TMTC3 expression in esophageal squamous cell carcinoma potentiates tumor angiogenesis through Rho GTPase/STAT3/VEGFA pathway. J EXP CLIN CANC RES. 2023 Dec;42(1):1-17 IHC

;Mouse. 37752569

- **[IF=10.6]** Zhang Yeshen. et al. Neutrophil N1 polarization induced by cardiomyocyte-derived extracellular vesicle miR-9-5p aggravates myocardial ischemia/reperfusion injury. J NANOBIOTECHNOL. 2024 Dec;22(1):1-25 WB ;Mouse. 39415256
- **[IF=9.4]** Yingqiang Luo. et al. High-salt microenvironment worsens the progression of atopic dermatitis via activating the SGK–1–mTOR pathway in keratinocytes. GENES DIS. 2026 Mar;:102168 WB ;Human. 10.1016/j.gendis.2026.102168
- **[IF=9.4]** Yingqiang Luo. et al. High-salt microenvironment worsens the progression of atopic dermatitis via activating the SGK–1–mTOR pathway in keratinocytes. GENES DIS. 2026 Mar;:102168 WB ;Human. 10.1016/j.gendis.2026.102168