

bsm-52210R**[Primary Antibody]****BioSS**
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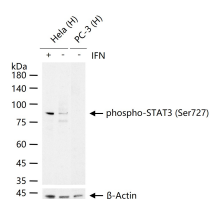
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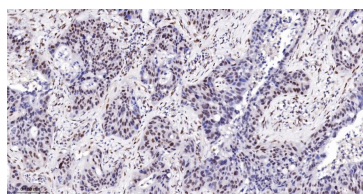
phospho-STAT3 (Ser727) Recombinant Rabbit mAb**— DATASHEET —****Host:** Rabbit**Isotype:** IgG**Clonality:** Recombinant**CloneNo.:** 4G1**GeneID:** 6774**SWISS:** P40763**Target:** STAT3 (Ser727)**Immunogen:** A synthesized peptide derived from human STAT3 around the phosphorylation site of S727: PM-pS-PR.**Purification:** 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.

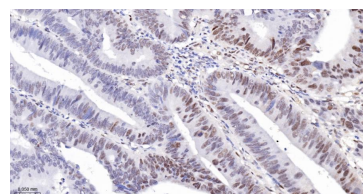
Background: The protein encoded by this gene is a member of the STAT protein family. In response to cytokines and growth factors, STAT family members are phosphorylated by the receptor associated kinases, and then form homo- or heterodimers that translocate to the cell nucleus where they act as transcription 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)**IHC-P** (1:200-800)**IHC-F** (1:200-800)**IF** (1:200-800)**ICC/IF** (1:100-500)**Reactivity:** Human, Mouse, Rat**Predicted MW.:** 88 kDa**Observed MW.:** 85 kDa**Subcellular Location:** Cytoplasm ,Nucleus**— VALIDATION IMAGES —**

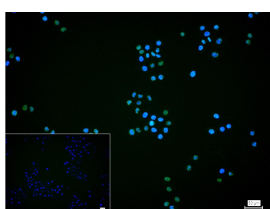
Hela (H) cells were treated with or without IFN (50 ng/ml) for 30 min, 25 µg total protein per lane of cell lysates (see on figure) probed with phospho-STAT3 (Ser727) monoclonal antibody, unconjugated (bsm-52210R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



Paraformaldehyde-fixed, paraffin embedded Human Lung Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with phospho-STAT3 (Ser727) Monoclonal Antibody, Unconjugated (bsm-52210R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Human Colon Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with phospho-STAT3 (Ser727) Monoclonal Antibody, Unconjugated (bsm-52210R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



Hela cell; 4% Paraformaldehyde-fixed; Triton

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (phospho-STAT3 (Ser727)) monoclonal Antibody, Unconjugated (bsm-52210R) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.

— SELECTED CITATIONS —

- **[IF=5.7]** Zeyu Zhang. et al. Optimized New Shengmai Powder suppresses ferroptosis in ischemic cardiomyocytes via cGMP-PKG signalling. CHIN MED-UK. 2026 Mar;21:78 WB ;Rat. 41787520
- **[IF=4.4]** An Hao. et al. Interleukin-22 facilitates the interferon-λ-mediated production of tripartite motif protein 25 to inhibit replication of duck viral hepatitis A virus type 1. VET RES. 2023 Dec;54(1):1-13 WB ;Duck. 37391858
- **[IF=3.9]** Faleti Oluwasijibomi Damola. et al. Dimethyl fumarate abrogates hepatocellular carcinoma growth by inhibiting Nrf2/Bcl-xL axis and enhances sorafenib' s efficacy. SCI REP-UK. 2025 May;15(1):1-15 WB ;Human. 40369009
- **[IF=3]** Chen-Liang Zhao. et al. Discovery of a potent C20-oxime pachysandra alkaloid analogue promising for treatment of hepatocellular carcinoma. BIOORGAN MED CHEM. 2025 Nov;129:118324 IF, WB ;Human. 40701033
- **[IF=2.7]** Feng Zhou. et al. Remote Ischemic Conditioning Attenuates Apoptosis, the Inflammatory Response, and Reperfusion Injury in Ischemic-Stroke Model Rats via the ELA-Apelin-APJ System. J INTEGR NEUROSCI. 2025 Aug;24(8):39897 WB ;Rat. 40919633