bsm-52210R **[Primary Antibody]**

phospho-STAT3 (Ser727) Recombinant Rabbit mAb

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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]

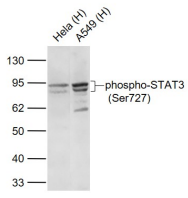
Applications: **WB** (1:1000-2000)
IHC-P (1:200-800)
IHC-F (1:200-800)
IF (1:200-800)
ICC/IF (1:100-500)

Reactivity: Human, Mouse, Rat

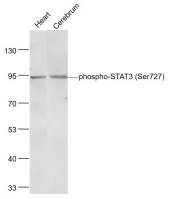
Predicted MW.: 88 kDa

Subcellular Location: Cytoplasm ,Nucleus

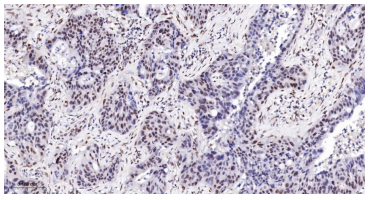
VALIDATION IMAGES



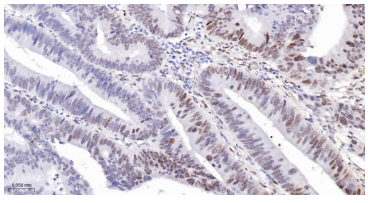
Sample: Lane 1: Hela (Human) Cell Lysate at 30 ug Lane 2: A549 (Human) Cell Lysate at 30 ug Primary: Anti- phospho-STAT3 (Ser727) (bsm-52210R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 92/84 kD Observed band size: 92/84 kD



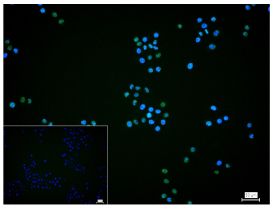
Sample: Heart (Rat) Lysate at 40 ug Cerebrum (Rat) Lysate at 40 ug Primary: Anti- phospho-STAT3 (Ser727) (bsm-52210R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 98 kD Observed band size: 94 kD



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



Hela cell; 4% Paraformaldehyde-fixed; Triton

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.

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=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=2.447]** Mei-Hua Jin. et al. Hispidin inhibits LPS-induced nitric oxide production in BV-2 microglial cells via ROS-dependent MAPK signaling. Exp Ther Med. 2021 Sep;22(3):1-9 WB ;Mouse. 34335912