

**bsm-33218M****[ Primary Antibody ]****STAT3 Mouse mAb****Bioss**  
**ANTIBODIES**

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**— DATASHEET —****Host:** Mouse**Isotype:** IgG**Clonality:** Monoclonal**CloneNo.:** 3F5**GeneID:** 6774**SWISS:** P40763**Target:** STAT3**Immunogen:** Recombinant human STAT3 Protein: 9-265/770.**Purification:** affinity purified by Protein G**Concentration:** 1mg/ml**Storage:** Size : 50ul/100ul/200ul

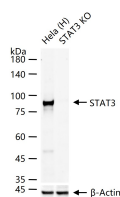
0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

Size : 200ug (PBS only)

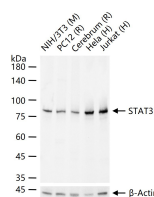
0.01M PBS

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

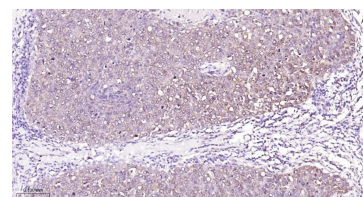
**Background:** The protein encoded by this gene is a member of the STAT protein family. In response to cytokines and growth factors, STAT family members are phosphorylated by the receptor associated kinases, and then form homo- or heterodimers that translocate to the cell nucleus where they act as transcription 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** (1:200-2000)**IHC-F** (1:200-2000)**IF** (1:200-2000)**Reactivity:** Human, Mouse, Rat  
(predicted: Cow)**Predicted  
MW.:** 88 kDa**Subcellular  
Location:** Cytoplasm ,Nucleus**— VALIDATION IMAGES —**

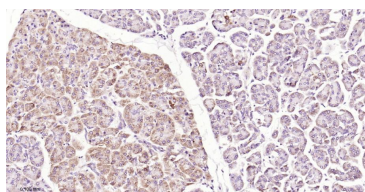
25 ug total protein per lane of various lysates (see on figure) probed with STAT3 monoclonal antibody, unconjugated (bsm-33218M) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



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Paraformaldehyde-fixed, paraffin embedded Human Breast Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with STAT3 Monoclonal Antibody, Unconjugated (ascites of bsm-33218M) at 1:1500 overnight at 4°C, followed by conjugation to the bs-40296G-HRP and DAB (C-0010) staining.



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

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Human Pancreas; Antigen retrieval by boiling in  
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section was incubated with STAT3 Monoclonal  
Antibody, Unconjugated (ascites of  
bsm-33218M) at 1:1500 overnight at 4°C,  
followed by conjugation to the bs-40296G-HRP  
and DAB (C-0010) staining.

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## — SELECTED CITATIONS —

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- **[IF=8.724]** Yong Tang. et al. Phosphorylation inhibition of protein-tyrosine phosphatase 1B tyrosine-152 induces bone regeneration coupled with angiogenesis for bone tissue engineering. *Bioact Mater.* 2021 Jul;6:2039 WB ;Mouse. 33511306
- **[IF=6.543]** Zhou Wan. et al. The Effects of RBP4 and Vitamin D on the Proliferation and Migration of Vascular Smooth Muscle Cells via the JAK2/STAT3 Signaling Pathway. *Oxid Med Cell Longev.* 2022;2022:3046777 WB ;Rat. 35082965
- **[IF=6.1]** Xiaoyue Zhang. et al. Integrating network pharmacology, molecular docking, and animal studies to investigate the protective effect of astragalus polysaccharide on fluoride-induced renal injury in rats. *ECOTOX ENVIRON SAFE.* 2025 Apr;294:118109 IHC ;Rat. 40154226
- **[IF=5.682]** Xiaolan You. et al. Dihydroartemisinin attenuates pulmonary inflammation and fibrosis in rats by suppressing JAK2/STAT3 signaling. *Aging-Us.* 2022 Feb 15; 14(3): 1110–1127 IHC,WB ;Rat. 35120332
- **[IF=5.4]** Yiran Chen. et al. Qinzhu Liangxue inhibits IL-6-induced hyperproliferation and inflammation in HaCaT cells by regulating METTL14/SOCS3/STAT3 axis. *J ETHNOPHARMACOL.* 2023 Dec;317:116809 WB ;Mouse,Human. 37336334