

bsm-33223M**[Primary Antibody]****STAT3 Mouse mAb****Bioss**
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— DATASHEET —**Host:** Mouse**Isotype:** IgG**Clonality:** Monoclonal**CloneNo.:** 5H4**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

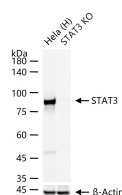
0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

Size : 200ug (PBS only)

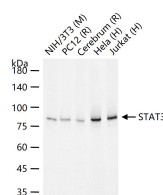
0.01M PBS

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

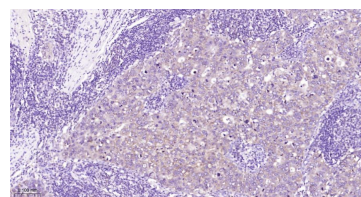
Background: The protein encoded by this gene is a member of the STAT protein family. In response to cytokines and growth factors, STAT family members are phosphorylated by the receptor associated kinases, and then form homo- or heterodimers that translocate to the cell nucleus where they act as transcription 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 MW.:** 88 kDa**Subcellular Location:** Cytoplasm ,Nucleus**— VALIDATION IMAGES —**

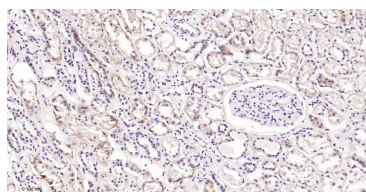
25 ug total protein per lane of various lysates (see on figure) probed with STAT3 monoclonal antibody, unconjugated (bsm-33223M) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



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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-33223M) 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.

Paraformaldehyde-fixed, paraffin embedded Human Kidney; 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-33223M) at 1:1500 overnight at 4°C, followed by conjugation to the bs-40296G-HRP and DAB (C-0010) staining.

— SELECTED CITATIONS —

- **[IF=5.595]** Zhao W et al. Long noncoding RNA NSCLCAT1 increases non-small cell lung cancer cell invasion and migration through the Hippo signaling pathway by interacting with CDH1.(2018)FASEB J. Aug 27 IHC ;Human. 30148675
- **[IF=5.546]** Feng - Feng Lv. et al. microRNA - 495 alleviates endothelial cell inflammatory injury in coronary heart disease via blockade of the NF - κB pathway by targeting RALB. 2020 Aug 18 IHC ;Mouse. 32810308
- **[IF=4.3]** Qinbing Xue. et al. Lycorine (Lycoris radiata)—a unique natural medicine on breast cancer. J CELL MOL MED. 2024 Aug;28(16):e70032 WB ;Human. 39175104
- **[IF=3.923]** Zhao Z et al.Protective role of microRNA-374 against myocardial ischemia-reperfusion injury in mice following thoracic epidural anesthesia by downregulating dystrobrevin alpha-mediated Notch1 axis.(2018)J Cell Physiol. Nov 22. IHC ;Mouse. 30565678
- **[IF=3.9]** Zhao JinFeng. et al. Synthesis, biological activities and mechanistic studies of C20-ketone pachysandra alkaloids as anti-hepatocellular carcinoma agents. MOL DIVERS. 2024 Aug;;1-21 WB ;Human. 39158620