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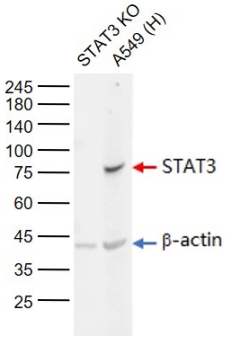
STAT3 Mouse mAb

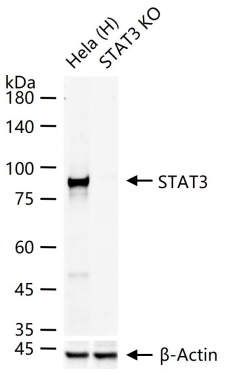
Catalog Number:	bsm-33218M
Target Protein:	STAT3
Concentration:	1mg/ml
Form:	Size : 50ul/100ul/200ul Liquid Size : 200ug (PBS only) Lyophilized Note: Centrifuge tubes before opening. Reconstitute the lyophilized product in distilled water. Optimal concentration should be determined by the end user.
Host:	Mouse
Clonality:	Monoclonal
Clone No.:	3F5
Isotype:	IgG
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
Entrez Gene:	6774
Swiss Prot:	P40763
Source:	Recombinant human STAT3 Protein: 9-265/770.
Purification:	affinity purified by Protein G
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]

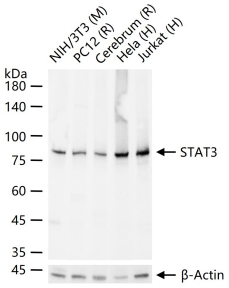
VALIDATION IMAGES



Sample: Lane 1: STAT3 knockout (KO) A549 Cell Lysate Lane 2: Human A549 Cell (Control) Lysate Primary: Anti-STAT3 (bsm-33218M) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution Predicted band size: 88 kD Observed band size: 88 kD



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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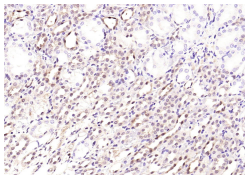
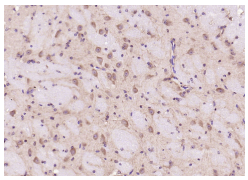
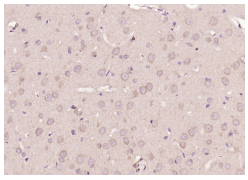


Paraformaldehyde-fixed, paraffin embedded (rat kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (STAT3) Monoclonal Antibody, Unconjugated (ascites of bsm-33218M 3F5) at 1:2000 overnight at 4°C, followed by operating according to SP Kit(Mouse) (sp-0024) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (STAT3) Polyclonal Antibody, Unconjugated (bsm-33218M) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (STAT3) Polyclonal Antibody, Unconjugated (bsm-33218M) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructionsand DAB staining.

PRODUCT SPECIFIC PUBLICATIONS

[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=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

[IF=5.037] Xin-yu Zhang. et al. Cerebralcare Granule® combined with nimodipine improves cognitive impairment in bilateral carotid artery occlusion rats by reducing lipocalin-2. Life Sci. 2021 Dec;286:120048 WB ; Rat . 34655604