bsm-51003M **[Primary Antibody]**

Myc Tag Mouse mAb

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DATASHEET

Host: Mouse
Isotype: IgG1
Clonality: Monoclonal
CloneNo.: 9E10
GeneID: 4609
Target: Myc Tag
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: Epitope tags are useful for the labeling and detection of proteins using immunoblotting, immunoprecipitation and immunostaining techniques. Due to their small size, they are unlikely to affect the tagged protein's biochemical properties. The Myc epitope tag is widely used to detect expression of recombinant proteins in bacteria, yeast,insect and mammalian cell systems.

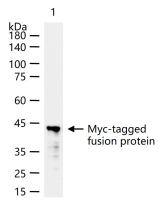
The c-Myc protein is a transcription factor, which is encoded by the c-Myc gene on human chromosome 8q24. c-Myc is commonly activated in a variety of tumor cells and plays an important role in cellular proliferation, differentiation, apoptosis and cell cycle progression. The phosphorylation of c-Myc has been investigated and previous studies have suggested a functional association between phosphorylation at Thr58/Ser62 by glycogen synthase kinase 3, cyclin dependent kinase, ERK2 and C-Jun N terminal Kinase (JNK) in cell proliferation and cell cycle regulation. Studies also have shown that c-Myc is essential for tumor cell development in vasculogenesis and angiogenesis that distribute blood throughout the cells, and which brought extensive attention in the development of new therapeutic approach for cancer treatment.

Applications: **WB** (1:5000-20000)
ELISA (1:1000-5000)

Reactivity: Species independent

Subcellular Location: Nucleus

VALIDATION IMAGES



4 ul Tags Positive Control Whole Cell Lysate (bs-41230P) per lane probed with Myc Tag monoclonal antibody respectively, unconjugated (bsm-51003M) at 1:10000 dilution and 4°C overnight incubation. Followed by corresponding conjugated secondary antibody incubation at r.t. for 60 min.

SELECTED CITATIONS

- **[IF=4.2]** Xin-Yu Zhang. et al. Porcine Teschovirus 2 3Cpro Evades Host Antiviral Innate Immunity by Inhibiting the IFN-β Signaling Pathway. MICROORGANISMS. 2025 Jun;13(6):1209 CoIP,WB ;Human. 40572097
- **[IF=2.4]** Xin-Yu Zhang. et al.The underlying mechanism of Porcine Teschovirus 2 3Cpro antagonizing the NLRP3 inflammasome..VETERINARY MICROBIOLOGY.2025 Mar 20:304:110479. Western blot ;Pig,Human. 40132520