bsm-55603R **[Primary Antibody]**

TNF | TNF-alpha Recombinant mAb

www.bioss.com.cn
sales@bioss.com.cn
techsupport@bioss.com.cn
400-901-9800

DATASHEET

Clonality: Recombinant
CloneNo.: 12A7
GeneID: 7124
SWISS: P01375
Target: TNF | TNF-alpha
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: This gene encodes a multifunctional proinflammatory cytokine that belongs to the tumor necrosis factor (TNF) superfamily. This cytokine is mainly secreted by macrophages. It can bind to, and thus functions through its receptors TNFRSF1A/TNFR1 and TNFRSF1B/TNFBR. This cytokine is involved in the regulation of a wide spectrum of biological processes including cell proliferation, differentiation, apoptosis, lipid metabolism, and coagulation. This cytokine has been implicated in a variety of diseases, including autoimmune diseases, insulin resistance, psoriasis, rheumatoid arthritis ankylosing spondylitis, tuberculosis, autosomal dominant polycystic kidney disease, and cancer. Mutations in this gene affect susceptibility to cerebral malaria, septic shock, and Alzheimer disease. Knockout studies in mice also suggested the neuroprotective function of this cytokine. [provided by RefSeq, Aug 2020]

Applications: **WB** (1:1000-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
IP (1:50-200)

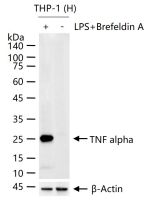
Reactivity: Human (predicted: Mouse, Rat)

Predicted MW.: 26 kDa

Observed MW.: 25 kDa

Subcellular Location: Secreted ,Cell membrane

VALIDATION IMAGES



THP-1 (H) cells were treated with or without LPS and Brefeldin A (5 µg/ml) for 4 h, 25 µg total protein per lane of cell lysates (see on figure) probed with TNF alpha monoclonal antibody, unconjugated (bsm-55603R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.

SELECTED CITATIONS

- **[IF=21.3]** Liu Haoran. et al. A Bioflexible Janus Dressing with Unidirectional Drainage for Dynamic pH Monitoring, Exudate Management, and Immune Modulation in Diabetic Wound Healing. ADV FIBER MATER. 2026 Mar;:1-15 IHC ;Rat. 10.1007/s42765-025-00661-3
- **[IF=4.7]** Bo Zhou. et al. A Multifunctional Electrospun Hemostatic Sponge for Effective Wound Closure and Healing. ACS APPL POLYM MATER. 2026 Apr IF ;Rat. 10.1021/acsapm.5c04653
- **[IF=3.7]** Jie Gao. et al. Mesencephalic astrocyte-derived neurotrophic factor attenuates sepsis-associated encephalopathy by inhibiting oxidative stress and pyroptosis. BRAIN RES BULL. 2026 Apr;237:111809 IHC ;Mouse.

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- **[IF=2.5]** Fudong Shi. et al. Acupuncture mitigates sciatic neuropathic pain in lumbar disc herniation via inhibiting spinal CXCL12/CXCR4-driven glial activation and neuroinflammation. J NEUROIMMUNOL. 2025 Nov;:578797 WB ;Rat. 41223618

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