bs-0078R **[Primary Antibody]**

TNF alpha Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 7124 **SWISS:** P01375

Target: TNF alpha

Immunogen: KLH conjugated synthetic peptide derived from human TNF alpha: 86-150/233. < Extracellular >

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]

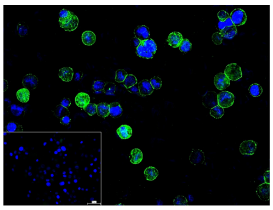
Applications: **Flow-Cyt** (1ug/Test)
ICC/IF (1:100-500)

Reactivity: Human, Mouse
(predicted: Pig, Dog, Horse)

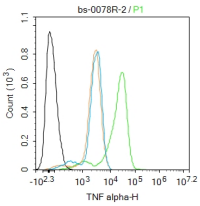
Predicted MW.: 17/26 kDa

Subcellular Location: Secreted ,Cell membrane

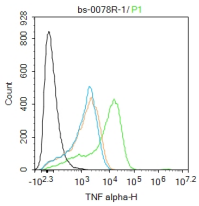
VALIDATION IMAGES



4% Paraformaldehyde-fixed THP-1(LPS treated (100 ng/ml, 16 h) and Brefeldin A treated (5 μg/ml, 4 h)) (H) cell; Antibody incubation with (TNF alpha) polyclonal Antibody, unconjugated (bs-0078R) 1:100, 90 min at 37°C; followed by conjugated Goat Anti-Rabbit IgG antibody (green, bs-60295G-BF488) at 37°C for 90 min, DAPI (blue, C02-04002) was used to stain the cell nuclei. PBS instead of the primary antibody was used as the blank control.



Blank control:Raw264.7. Primary Antibody (green line): Rabbit Anti-TNF alpha antibody (bs-0078R) Dilution: 2ug/Test; Secondary Antibody : Goat anti-rabbit IgG-FITC Dilution: 0.5ug/Test. Protocol The cells were treated with LPS (1 ug/mL, 18 hr/6 hr) and Brefeldin A (300 ng/mL, last 3 hr of stimulation).The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 0.1% PBST for 20 min at room temperature.The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.



Blank control:THP-1. Primary Antibody (green line): Rabbit Anti-TNF alpha antibody (bs-0078R) Dilution: 1ug/Test; Secondary Antibody : Goat anti-rabbit IgG-FITC Dilution: 0.5ug/Test. Protocol The cells were treated with TPA (80 nM, overnight) and then treated with LPS (1 ug/mL, 18 hr/6 hr) and Brefeldin A (300 ng/mL, last 3 hr of stimulation) .The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 0.1% PBST for 20 min at room temperature.The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

SELECTED CITATIONS

- **[IF=13.273]** Xuefang Hao. et al. Biomimetic and responsive nanoparticles loading JQ1 for dual-targeting treatment of vascular restenosis via multiple actions. Chem Eng J. 2021 Nov;:133452 WB ;Mouse. 10.1016/j.cej.2021.133452
- **[IF=13.273]** Fangyu Qiao. et al. 4-Octyl itaconate modified demineralized bone matrix scaffold improves bone repair by regulating early inflammation. Chem Eng J. 2021 Dec;425:131490 WB,IF ;Rat. 10.1016/j.cej.2021.131490
- **[IF=11.092]** Fangyu Qiao. et al. Hybrid Cell Membrane-Functionalized Matrixes for Modulating Inflammatory Microenvironment and Improving Bone Defect Repair. ADV HEALTHC MATER. 2023 Apr;:2203047 IF ;Rat. 37059691
- **[IF=9.6]** Swapan Maity. et al. Mechanically Responsive Organic–Inorganic Hybrid as Advanced Delivery Vehicle for Targeted Cancer Treatment. ADV HEALTHC MATER. 2025 Jun;:2500738 IHC ;Mouse. 40474441
- **[IF=8.5]** Nai-Sheng Hsu. et al. Development of a sprayable thermosensitive lysine-modified pluronic hyaluronic acid hydrogel for enhanced wound healing and adhesion prevention in laparoscopic applications. INT J BIOL MACROMOL. 2025 Sep;321:146297 IHC ;Pig. 40721087