

bsm-54002R**[Primary Antibody]****BioSS**
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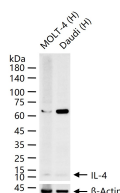
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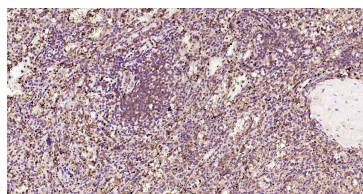
400-901-9800

IL-4 Recombinant Rabbit mAb**— DATASHEET —**

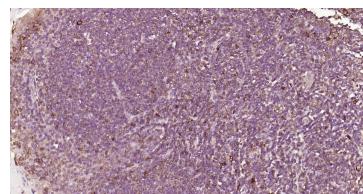
Host: Rabbit	Isotype: IgG	Applications: WB (1:500-2000) IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) Reactivity: Human Predicted MW.: 14 kDa Subcellular Location: Secreted
Clonality: Recombinant	CloneNo.: 14G6	
GeneID: 3565	SWISS: P05112	
Target: IL-4		
Immunogen: A synthesized peptide derived from human IL 4: 71-120.		
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: The protein encoded by this gene is a pleiotropic cytokine produced by activated T cells. This cytokine is a ligand for interleukin 4 receptor. The interleukin 4 receptor also binds to IL13, which may contribute to many overlapping functions of this cytokine and IL13. STAT6, a signal transducer and activator of transcription, has been shown to play a central role in mediating the immune regulatory signal of this cytokine. This gene, IL3, IL5, IL13, and CSF2 form a cytokine gene cluster on chromosome 5q, with this gene particularly close to IL13. This gene, IL13 and IL5 are found to be regulated coordinately by several long-range regulatory elements in an over 120 kilobase range on the chromosome. Two alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported. [provided by RefSeq, Jul 2008].		

— VALIDATION IMAGES —

25 ug total protein per lane of various lysates (see on figure) probed with IL-4 monoclonal antibody, unconjugated (bsm-54002R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



Paraformaldehyde-fixed, paraffin embedded Human Spleen; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with IL-4 Monoclonal Antibody, Unconjugated (bsm-54002R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Human Tonsil; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with IL-4 Monoclonal Antibody, Unconjugated (bsm-54002R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.

— SELECTED CITATIONS —

- **[IF=8.7]** Xiaolan Ou. et al. Portable direct spraying porous nanofibrous membranes stent-loaded polymyxin B for treating diabetic wounds with difficult-to-heal gram-negative bacterial infections. MATER TODAY BIO. 2024 Dec;29:101365 IF ;Rat. 39687800
- **[IF=8.2]** Jialei Tian. et al. Chondroitin sulphate modified MoS2 nanoenzyme with multifunctional activities for treatment of Alzheimer's disease. INT J BIOL MACROMOL. 2024 May;266:131425 WB ;Human. 38583830
- **[IF=6.8]** Meihui Tian. et al. Mechanistic study of acupuncture on the pterygopalatine ganglion to improve allergic rhinitis: analysis of multi-target effects based on bioinformatics/network topology strategies. brief bioinform. 2024 May

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

23;25(4):bbae287. IHC ;Rat. 38877888

- **[IF=4.9]** Yang Liu. et al. Platycodon grandiflorus polysaccharides combined with hesperidin exerted the synergistic effect of relieving ulcerative colitis in mice by modulating PI3K/AKT and JAK2/STAT3 signaling pathways. CHIN J NAT MEDICINES. 2025 Jul;23:848 IHC ;Mouse. 40653325