bs-8481R

[Primary Antibody]

MHC Class II Rabbit pAb

— DATASHEET —

Host: Rabbit

Isotype: IgG

Clonality: Polyclonal

GeneID: 3109

SWISS: P28068

Target: MHC Class II

Immunogen: KLH conjugated synthetic peptide derived from human HLA class II histocompatibility antigen DM beta chain: 111-200/263.

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℃. Store at -20℃ for one year. Avoid repeated freeze/thaw cycles.

Background: HLA-DMB belongs to the HLA class II beta chain paralogues. This class II molecule is a heterodimer consisting of an alpha (DMA) and a beta (DMB) chain, both anchored in the membrane. It is located in intracellular vesicles. DM plays a central role in the peptide loading of MHC class II molecules by helping to release the CLIP (class II-associated invariant chain peptide) molecule from the peptide binding site. Class II molecules are expressed in antigen presenting cells (APC: B lymphocytes, dendritic cells, macrophages). The beta chain is approximately 26-28 kDa and its gene contains 6 exons. Exon one encodes the leader peptide, exons 2 and 3 encode the two extracellular domains, exon 4 encodes the transmembrane domain and exon 5 encodes the cytoplasmic tail. [provided by RefSeq, Jul 2008]

Applications: **WB** (1:500-2000)
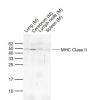**IHC-P** (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
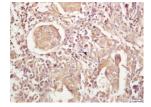
Reactivity: Human, Mouse (predicted: Rat)

Predicted MW.: 27 kDa

Subcellular Location: Cell membrane ,Cytoplasm

— VALIDATION IMAGES —

Sample: Lane 1: Lung (Mouse) Lysate at 40 ug Lane 2: Cerebrum (Mouse) Lysate at 40 ug Lane 3: Lymph node (Mouse) Lysate at 40 ug Lane 4: Spleen (Mouse) Lysate at 40 ug Primary: Anti-MHC Class II (bs-8481R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 29/50 kD Observed band size: 50 kD

Tissue/cell: human lung carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min; Incubation: Anti-MHC Class II Polyclonal Antibody, Unconjugated(bs-8481R) 1:200, overnight at 4℃, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

— SELECTED CITATIONS —

- **[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 WB ;Rat. 37059691

- **[IF=10]** Liu-Gen Li. et al. A Dihydroartemisinin-Loaded Nanoreactor Motivates Anti-Cancer Immunotherapy by Synergy-Induced Ferroptosis to Activate Cgas/STING for Reprogramming of Macrophage. ADV HEALTHC MATER. 2023 Aug;:2301561

IF ;Mouse. 37567571

- **[IF=7.561]** Pengfei Li. et al. Comparative Proteomic Analysis of Polarized Human THP-1 and Mouse RAW264.7 Macrophages. Front Immunol. 2021; 12: 700009 IF ;Human, Mouse. 34267761

- **[IF=8]** Minghong Chen. et al. Senescent Macrophages Promote Age-Related Revascularization Impairment by Increasing Antiangiogenic VEGF-A165B Expression. AGING CELL. 2025 Apr;:e70059 WB ;Mouse. 40243169

- **[IF=7.376]** Fenghong Wang. et al. Silica nanoparticles induce pyroptosis and cardiac hypertrophy via ROS/NLRP3/Caspase-1 pathway. Free Radical Bio Med. 2022 Mar;182:171 IHC,WB ;Rat,Human. 10.1016/j.freeradbiomed.2022.02.027