bs-6028R **[Primary Antibody]**

CD16 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 2214 **SWISS:** P08637

Target: CD16

Immunogen: KLH conjugated synthetic peptide derived from human IGFR3/CD16: 131-230/254.

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 receptor for the Fc portion of immunoglobulin G, and it is involved in the removal of antigen-antibody complexes from the circulation, as well as other responses, including antibody dependent cellular mediated cytotoxicity and antibody dependent enhancement of virus infections. This gene (FCGR3A) is highly similar to another nearby gene (FCGR3B) located on chromosome 1. The receptor encoded by this gene is expressed on natural killer (NK) cells as an integral membrane glycoprotein anchored through a transmembrane peptide, whereas FCGR3B is expressed on polymorphonuclear neutrophils (PMN) where the receptor is anchored through a phosphatidylinositol (PI) linkage. Mutations in this gene are associated with immunodeficiency 20, and have been linked to susceptibility to recurrent viral infections, susceptibility to systemic lupus erythematosus, and alloimmune neonatal neutropenia. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2020]

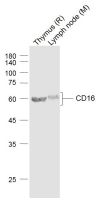
Applications: **WB** (1:500-2000)

Reactivity: Human, Mouse, Rat

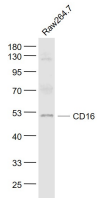
Predicted MW.: 27 kDa

Subcellular Location: Secreted ,Cell membrane

VALIDATION IMAGES



Sample: Lane 1: Thymus (Rat) Lysate at 40 ug
Lane 2: Lymph node (Mouse) Lysate at 40 ug
Primary: Anti-CD16 (bs-6028R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 55 kD
Observed band size: 60 kD



Sample: Raw264.7(Mouse) Cell Lysate at 30 ug
Primary: Anti- CD16 (bs-6028R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 27 kD
Observed band size: 50 kD

SELECTED CITATIONS

- **[IF=15.304]** Yao Lei. et al. Phytochemical natural killer cells reprogram tumor microenvironment for potent immunotherapy of solid tumors. BIOMATERIALS. 2022 Jun;:121635 WB,IF,FCM ;Mouse. 10.1016/j.biomaterials.2022.121635
- **[IF=11.492]** Laura Lopez-Sanz. et al. Fcγ receptor activation mediates vascular inflammation and abdominal aortic aneurysm development. Clin Transl Med. 2021 Jul;11(7):e463 IHC ;Human. 34323424

- **[IF=7.3]** Zhenglin Ou. et al. Hypoxia mediates immune escape of pancreatic cancer cells by affecting miR-1275/AXIN2 in natural killer cells. FRONT IMMUNOL. 2023; 14: 1271603 IF ;Human. 38035113
- **[IF=6.7]** Xiong Liu-Lin. et al. Single-cell RNA sequencing reveals peripheral immunological features in Parkinson’s Disease. NPJ PARKINSONS DIS. 2024 Oct;10(1):1-14 IF ;Human. 39366969
- **[IF=6.147]** Weishi Liang. et al. The Role of Microglia/Macrophages Activation and TLR4/NF-κB/MAPK Pathway in Distraction Spinal Cord Injury-Induced Inflammation. FRONT CELL NEUROSCI. 2022; 16: 926453 IF ;Pig. 35755773