

CD16 Recombinant Rabbit Monoclonal Antibody Product Datasheet

Catalog# BX50368

Clone# BP6335

Predicted Molecular Wt: 29kDa
Species Cross-reactivity: Human
Applications: IHC-P

Purity: ProA affinity purified IgG
Form: Liquid
Swissprot ID: P08637/O75015

Background:

CD16, also known as FcγRIII, is a glycoprotein belonging to the immunoglobulin superfamily. Two main isoforms exist: CD16a (FcγRIIIA) and CD16b (FcγRIIIB). They differ structurally and functionally. CD16a possesses a complete transmembrane domain and cytoplasmic tail, enabling it to transduce signals and trigger NK-cell-mediated antibody-dependent cellular cytotoxicity (ADCC)—a process critical for eliminating tumor and virus-infected cells. CD16b, in contrast, lacks much of the cytoplasmic tail and does not propagate intracellular signals; although it can bind neutrophil granules and participate in certain immune responses, it does not elicit tumor-cell killing, limiting its role in antitumor immunity.

CD16a is expressed mainly on natural killer (NK) cells, macrophages and mast cells, whereas CD16b is found predominantly on granulocytes.

In pathological diagnosis, CD16a expression helps identify and distinguish NK cells from certain T-cell subsets, which is essential for classifying lymphocyte subpopulations and analyzing their functions.

Subcellular location:

Membrane/Secreted

Recommended Method:

Heat induced epitope retrieval with Tris-EDTA buffer (pH 9.0), primary antibody incubate at RT (18°C-25°C) for 30 minutes.

Immunogen:

The synthetic peptide corresponding to Human CD16 aa 55-104.

Storage Buffer:

PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.

Storage Conditions:

-25°C to -18°C

Shipment Instructions:

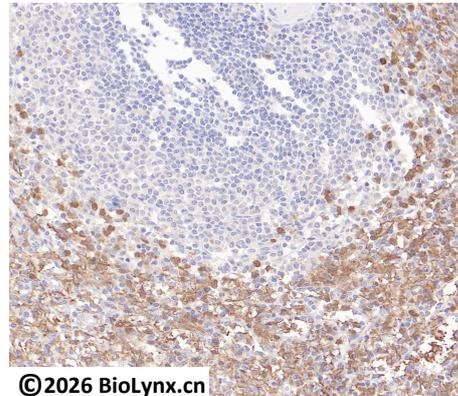
Shipped on blue ice. Upon delivery store at -25°C to -18°C. Avoid freeze / thaw cycles.

Recommended Dilution:

IHC-P: 1:100-1:200

Background References:

1. Maenaka, K. et al. (2001) J. Biol. Chem. 276, 44898-44904.
2. Pignata, C. et al. (1993) J. Immunol. 151, 6794-6800.



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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human spleen labelling CD16 with BP6335.

Product QC'd by: 

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