



## CD16 Monoclonal Antibody

Cat #: ABM0038

Size: 100µl

### Product Information

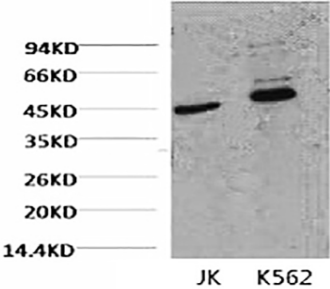
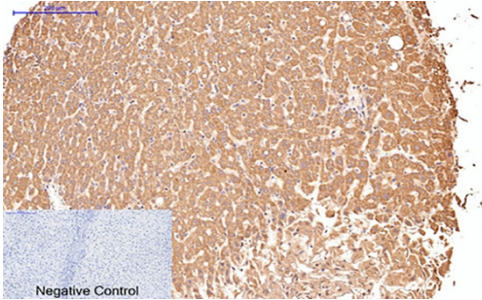
|   |  |   |   |
|---|--|---|---|
|   | <b>Product Name:</b> CD16 Monoclonal Antibody                        |   |   |
|   | <b>Applications:</b> WB, IHC-P                                       |   | <b>Isotype:</b> Mouse IgG1                |
|   | <b>Reactivity:</b> Human   |   |   |
| <b>REF</b>  | <b>Catalog Number:</b> ABM0038                                       | <b>LOT</b>  | <b>Lot Number:</b> Refer to product label |
|   | <b>Formulation:</b> Liquid   |   | <b>Concentration:</b> 1 mg/ml             |
|  | <b>Storage:</b> Store at -20°C. Avoid repeated freeze / thaw cycles. |  | <b>Note:</b> Contain sodium azide.        |

**Background:** FCGR3A 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 antibody-dependent responses. This gene (FCGR3A) is highly similar to another nearby gene (FCGR3B) located on chromosome 1. Fc fragment of IgG receptor IIIa encoded by FCGR3A 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 FCGR3A 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 FCGR3A.

**Application Notes:** Optimal working dilutions should be determined experimentally by the investigator. Suggested starting dilutions are as follows: WB (1:1000), IHC-P (1:50-1:300).

**Storage Buffer:** PBS, pH 7.4, containing 0.02% Sodium Azide as preservative and 50% Glycerol.

**Storage Instructions:** Stable for one year at -20°C from date of shipment. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Aliquot to avoid repeated freezing and thawing.

|   |  |
|---|--|
|  | <p>Fig.1. Western blot analysis of 1) Jurkat, 2) K562, diluted at 1:2000.</p>  |
|  | <p>Fig.2. Immunohistochemical analysis of paraffin-embedded human liver tissue. 1, CD16 Monoclonal Antibody was diluted at 1:200 (4°C, overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval (&gt;98°C, 20min). 3, secondary antibody was diluted at 1:200 (room temperature, 30min). Negative control was used by secondary antibody only.</p> |

**Note:** The product listed herein is for research use only and is not intended for use in human or clinical diagnosis. Suggested applications of our products are not recommendations to use our products in violation of any patent or as a license. We cannot be responsible for patent infringements or other violations that may occur with the use of this product.