

Anti-CD16a Antibody (3I481)

Product Details

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| Ig Type: | Mouse IgG1 |
| Reactivity: | Human |
| Conjugation: | Unconjugated |
| Clone: | 3I481 |
| Purification: | Protein A |

Applications

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| Verified Activity: | 1. Immunochemical staining of human CD16a in human spleen with mouse monoclonal antibody (1:500, formalin-fixed paraffin embedded sections). |
| | 2. Immunochemical staining of human CD16a in human lung with mouse monoclonal antibody (1:500, formalin-fixed paraffin embedded sections). |
| | 3. Immunochemical staining of human CD16a in human liver with mouse monoclonal antibody (1:500, formalin-fixed paraffin embedded sections). |
| Application: | IHC-P |
| Recommended | IHC-P: 1:250-1:1000 |

Properties

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| Stability & Storage: | Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free. |
| Shipping: | Shipping with blue ice. |

Antigen Details

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| Immunogen: | Recombinant Protein: Human CD16a / FCGR3A protein (TMPY-00763) |
| Antigen Species: | Human |
| Synonyms: | Fc fragment of IgG, low affinity IIIa, receptor (CD16a) |
| Biology Area: | Fc Receptors, Cancer Drug Targets, ITIM/ITAM Immunoreceptors and Related Molecules |

Research Background

The Fc receptor with low affinity for IgG (FCGR3, or CD16) is encoded by 2 nearly identical genes, FCGR3A and FCGR3B, resulting in tissue-specific expression of alternative membrane-anchored isoforms. FCGR3A, it is also known as CD16a, encodes a transmembrane protein expressed on activated monocytes/macrophages, natural killer (NK) cells, and a subset of T cells.

CD16a / FCGR3A is a receptor expressed on NK cells that facilitates antibody dependent cellular cytotoxicity (ADCC) by binding to the Fc portion of various antibodies. CD16a / FCGR3A also has a broader function. CD16a / FCGR3A is directly involved in the lysis of some virus-infected cells and tumor cells by NK cells, independent of antibody binding. Cross-linking of CD16a / FCGR3A on NK cells resulted in increased intracellular Ca²⁺ levels and a cascade of biochemical events similar to those activated by the T cell receptor. CD16a / FCGR3A on human NK cells is a lysis receptor that mediates the direct killing of some virus infected and tumor cells, independent of antibody ligation.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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