

## Anti-human CD16 Antibody (6K437)

## Product Details

|                   |                                         |
|-------------------|-----------------------------------------|
| Ig Type:          | Mouse IgG1, k                           |
| Reactivity:       | Human                                   |
| Molecular Weight: | Theoretical: 27 kDa. Actual: 50-65 kDa. |
| Clone:            | 6K437                                   |
| Purification:     | Protein G purified                      |

## Applications

|                    |                                                                                                                                                                                                                                                              |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Verified Activity: | scatter diagram showing peripheral blood lymphocytes stained with CD16. The cells were incubated with the antibody (TMAB-07388) for 30 min at 22°C. The secondary antibody used for 40 min at room temperature. Acquisition of >10,000 events was performed. |
| Application:       | FCM                                                                                                                                                                                                                                                          |
| Recommended        | FCM: 1µg/Test                                                                                                                                                                                                                                                |

## Properties

|                      |                                                                                                         |
|----------------------|---------------------------------------------------------------------------------------------------------|
| 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. |
| Shipping:            | Shipping with blue ice.                                                                                 |

## Antigen Details

|          |      |
|----------|------|
| Gene ID: | 2214 |
|----------|------|

## Research 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]

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