

## CD16 / FcγReceptor III Antibody

Mouse Monoclonal Antibody [Clone C16/1045]

Catalog No	Format	Size
2214-MSM2-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
2214-MSM2-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
2214-MSM2-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

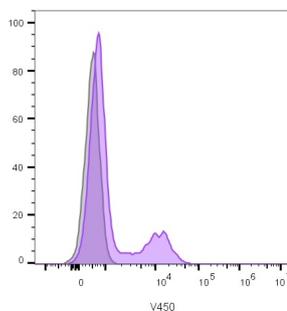
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	
Western Blot (WB)	2-4ug/ml	

### Product Details

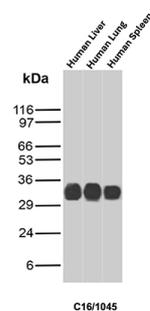
<b>Clone</b>	C16/1045
<b>Gene Name</b>	FCGR3A
<b>Immunogen</b>	Recombinant human CD16 protein
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype / Light Chain</b>	IgG1 / Kappa
<b>Mol. Weight of Antigen</b>	50-80kDa
<b>Cellular Localization</b>	Cell membrane, Secreted
<b>Species Reactivity</b>	Human
<b>Positive Control</b>	hPBL or U-937 cells. Lymph nodes and tonsils., K-562. Human Liver. Human Lung. Human Spleen.

\*Optimal dilution for a specific application should be determined.

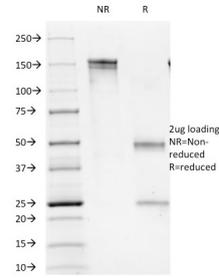
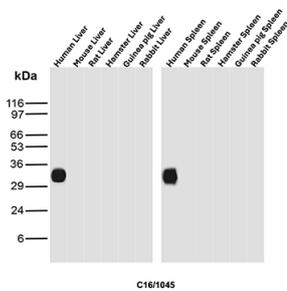
### Product Images for CD16 / FcγReceptor III Antibody



Flow cytometry analysis of lymphocyte-gated PBMCs unstained (gray) or stained with CF405S-labeled CD16 monoclonal antibody (C16/1045) (violet).



Western Blot Analysis of Human Liver, Human Lung and Human Spleen tissue cell lysates using CD16 Mouse Monoclonal Antibody (C16/1045).



Western Blot Analysis of Human Liver, Mouse Liver, Rat Liver, Hamster Liver, Guinea pig Liver, Rabbit Liver, Human Spleen, Mouse Spleen, Rat Spleen, Hamster Spleen, Guinea pig Spleen and Rabbit Spleen tissue cell lysates using CD16 Mouse Monoclonal Antibody (C16/1045).

SDS-PAGE Analysis of Purified CD16 Mouse Monoclonal Antibody (C16/1045). Confirmation of Purity and Integrity of Antibody.

### Specificity & Comments

It recognizes CD16 (FcγRIII), the low-affinity receptor for IgG with an apparent molecular weight of 50-80kDa. Two similar genes represent CD16, CD16A (FcγRIIIA), which exists as a hetero-oligomeric polypeptide-anchored form in macrophages and NK cells and CD16B (FcγRIIIB), which exist as a monomeric GPI-anchored form in neutrophils. Furthermore, there are two known polymorphisms of CD16B, NA-1 and NA-2. Individuals homozygous for NA-2 show a lower phagocytic capacity compared with NA-1. CD16 binds IgG in the form of immune complexes and shows preferential binding of IgG1 and IgG3 isotypes and minimal binding of IgG2 and IgG4. Upon IgG binding, both CD16 isoforms initiate signal transduction cascades that lead to a variety of responses including antibody-dependent cell-mediated cytotoxicity (ADCC), phagocytosis, degranulation and proliferation.

### Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

### Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

### Storage and Stability

Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

### Research Areas

Immunology, Infectious Disease