



# Rabbit Anti-Cynomolgus CD16 Polyclonal Antibody (CABT-NS1708)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Specificity</b>	Cynomolgus CD16/FCGR3
<b>Target</b>	CD16
<b>Immunogen</b>	Recombinant Cynomolgus CD16/FCGR3 protein
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Cynomolgus
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	<p>ELISA, IHC-P</p> <p>Recommended dilution:</p> <p>ELISA: 0.1-0.2 µg/mL.</p> <p>This antibody can be used at 0.1-0.2 µg/mL with the appropriate secondary reagents to detect Cynomolgus FCGR3.</p> <p>The detection limit for Cynomolgus FCGR3 is approximately 0.00245 ng/well.</p> <p>IHC-P: 0.1-2 µg/mL</p> <p>Each laboratory should determine an optimum working titer for use in its particular application.</p> <p>Other applications have not been tested but use in such assays should not necessarily be excluded.</p>
<b>Format</b>	Liquid, Purified
<b>Size</b>	50 µl, 100 µl, 200 µl
<b>Buffer</b>	0.2 µm filtered solution in PBS with 5% trehalose

<b>Preservative</b>	None
<b>Storage</b>	This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C. Preservative-Free. Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.

## BACKGROUND

<b>Introduction</b>	Fc receptors bind the most common class of antibody, IgG, are called Fc gamma receptors (Fc $\gamma$ R). Fc $\gamma$ R is divided into three classes, Fc $\gamma$ RI (CD64), Fc $\gamma$ RII (CD32), and Fc $\gamma$ RIII (CD16). CD16 protein is a multifunctional, low/intermediate affinity receptor, which belongs to the immunoglobulin superfamily. It is found on the surface of natural killer cells, neutrophil polymorphonuclear leukocytes, monocytes and macrophages. Mouse CD16 is encoded by a single gene, while, human CD16 is expressed as two distinct forms (CD16a/Fc $\gamma$ RIIIa and CD16b/Fc $\gamma$ RIIIb) encoded by two different highly homologous genes in a cell type-specific manner. CD16 is involved in phagocytosis, secretion of enzymes, inflammatory mediators, antibody-dependent cellular cytotoxicity (ADCC), and clearance of immune complexes.
<b>Keywords</b>	CD16; FCG3; CD16A; FCGR3; IGFR3; FCR-10; FCRIII; FCGRIII; FCRIIIA; FCGR3A; Low affinity immunoglobulin gamma Fc region receptor III-A; CD16a antigen; Fc-gamma RIII-alpha; Fc-gamma RIII; Fc-gamma RIIIa; IgG Fc receptor III-2