



# Anti-CD55 monoclonal antibody, clone 67 [R-PE] (CABT-47928MH)

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

## PRODUCT INFORMATION

### Product Overview

Mouse anti Human CD55 antibody, clone 67 recognizes the human CD55 cell surface antigen, a GPI linked molecule also known as decay accelerating factor (DAF). CD55 is expressed by a wide range of cell types. Erythrocyte expression is very weak. CD55 is the complement regulatory protein, decay accelerating factor (DAF). Human CD55 is a ~70kDa glycoprotein (in erythrocytes) anchored in the membrane by glycosylphosphatidylinositol tail. In other cells the apparent molecular weight is somewhat larger. It has a substantial content of O-glycans, and also on N-glycan. DAF binds to activated C4b or C3b complement fragments on the cell surface, preventing the assembly and accelerating the decay of both classical and alternative pathways. DAF carries the Cromer related blood group antigens. DAF has a wide distribution on cells in non-haemopoietic tissues, particularly epithelium and is specifically found at the foetal-maternal interface in placenta. Soluble forms of DAF are found, for example, in plasma, saliva and urine. The antigen on erythrocytes is pronase and chymotrypsin sensitive, but resistant to trypsin. Flow Cytometry Use 10ul of the suggested working dilution to label 106 cells in 100ul.

<b>Specificity</b>	CD55
<b>Isotype</b>	IgG1
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Clone</b>	67
<b>Conjugate</b>	PE
<b>Applications</b>	FC
<b>Format</b>	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilised

<b>Size</b>	100 tests
<b>Preservative</b>	0.09% Sodium Azide
<b>Storage</b>	Prior to reconstitution store at +4°C. Following reconstitution store at +4°C. DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">CD55 CD55 molecule, decay accelerating factor for complement (Cromer blood group) [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	CD55
<b>Synonyms</b>	CD55; CD55 molecule, decay accelerating factor for complement (Cromer blood group); CR; TC; DAF; CROM; complement decay-accelerating factor; CD55 antigen;
<b>Entrez Gene ID</b>	<a href="#">1604</a>
<b>Protein Refseq</b>	<a href="#">NP_000565</a>
<b>UniProt ID</b>	P08174
<b>Chromosome Location</b>	1q32
<b>Pathway</b>	Class B/2 (Secretin family receptors); Complement Activation, Classical Pathway; Complement and coagulation cascades; Complement cascade; Defective ACTH causes Obesity and Pro-opiomelanocortinin deficiency (POMCD); Disease; GPCR ligand binding; Hematopoietic cell lineage;
<b>Function</b>	lipid binding; protein binding; virus receptor activity;