

Product datasheet

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ARG22946 anti-CD55 antibody [67]

Package: 100 μg Store at: -20°C

Summary

Product Description

Mouse Monoclonal antibody [67] recognizes CD55

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.CD55 is the complement regulatory protein, decay accelerating factor (DAF) (Lublin and Atkinson 1989). Human CD55 is a ~70 kDa 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-hemopoietic tissues, particularly epithelium and is specifically found at the fetal-maternal interface in placenta (Holmes et al. 1990 and Yang et al. 2009). Soluble forms of DAF are found, for example, in plasma, saliva and urine (Medof et al. 1987). The antigen on erythrocytes is pronase and chymotrypsin sensitive, but resistant to trypsin.

Tested Reactivity Hu

Tested Application FACS, IHC-Fr, WB

Host Mouse

Clonality Monoclonal

Clone 67

Isotype IgG1

Target Name CD55

Species Human

ImmunogenK562 cell line.ConjugationUn-conjugated

Alternate Names DAF; CD antigen CD55; CROM; Complement decay-accelerating factor; CR; TC

Application Instructions

Application table	Application	Dilution
	FACS	Assay-dependent
	IHC-Fr	Assay-dependent
	WB	Assay-dependent
Application Note	FACS: Use 10 μ l of the suggested working dilution to label 10^6 cells in 100 μ l. Please note: Arigo do not recommend the use of this reagent to stain erythrocytes. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form Liquid

Purification Purification with Protein A.

Buffer PBS and 0.09% Sodium azide

Preservative 0.09% Sodium azide

Concentration 1 mg/ml

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol CD55

Gene Full Name CD55 molecule, decay accelerating factor for complement (Cromer blood group)

Background This gene encodes a glycoprotein involved in the regulation of the complement cascade. Binding of the

encoded protein to complement proteins accelerates their decay, thereby disrupting the cascade and preventing damage to host cells. Antigens present on this protein constitute the Cromer blood group system (CROM). Alternative splicing results in multiple transcript variants. The predominant transcript variant encodes a membrane-bound protein, but alternatively spliced transcripts may produce soluble

proteins. [provided by RefSeq, Jul 2014]

Function This protein recognizes C4b and C3b fragments that condense with cell-surface hydroxyl or amino

groups when nascent C4b and C3b are locally generated during C4 and c3 activation. Interaction of daf with cell-associated C4b and C3b polypeptides interferes with their ability to catalyze the conversion of C2 and factor B to enzymatically active C2a and Bb and thereby prevents the formation of C4b2a and

C3bBb, the amplification convertases of the complement cascade. [UniProt]

Calculated Mw 41 kDa

PTM The Ser/Thr-rich domain is heavily O-glycosylated.