

## Product datasheet for **SM1141PS**

### CD55 / DAF Mouse Monoclonal Antibody [Clone ID: 67]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	67
Applications:	FC, IHC
Recommended Dilution:	<b>Flow Cytometry:</b> Use 10 µl of 1/10-1/25 diluted antibody to label 10e6 cells in 100 µl. We do not recommend the use of this reagent to stain erythrocytes. <b>Immunohistochemistry on Frozen Sections (1/100-1/1000).</b> <i>Recommended positive control:</i> Human Tonsil. (Successful use in Immunohistochemistry on Paraffin embedded sections (1/50-1/100) using heat treatment for antigen retrieval) was reported by some researchers. As this detection method has not been verified by Acris Antibodies, the application was deleted from the database. This does not necessarily exclude the use in such procedure.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	K562 cells
Specificity:	This antibody recognises the CD55 which is expressed by a wide range of cell types. Erythrocyte expression is weak.
Formulation:	PBS, pH 7.4 containing 0.09% Sodium Azide as preservative State: Purified State: Liquid purified IgG fraction
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein G
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	CD55 molecule (Cromer blood group)



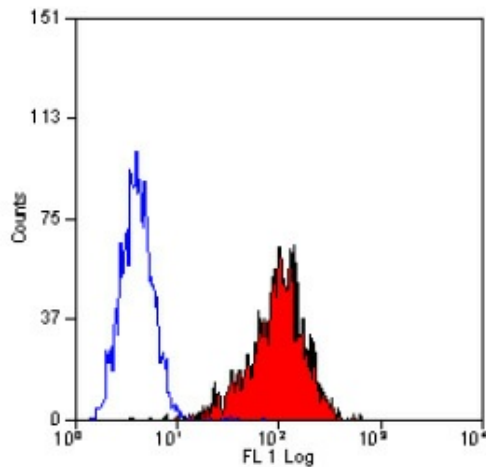
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Database Link: [Entrez Gene 1604 Human P08174](#)

**Background:** Avoidance by host tissues of attack by autologous complement proteins is dependent in part on the activities of membrane regulatory factors. One molecule involved in this control is a 70 kD glycoprotein termed decay-accelerating factor (DAF), or CD55. Interruption by CD55 of the complement sequence at an early step in activation effectively halts progression of the cascade and prevents consequent cell injury. In man, CD55 is expressed on the plasma membrane of all cell types that are in intimate contact with plasma complement proteins. 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. CD55 also acts as the receptor for echovirus 7 and related viruses (echoviruses 13, 21, 29 and 33). It is attached to the membrane by a GPI-anchor.

**Synonyms:** CR; CROM; DAF; TC

### Product images:



Staining of human peripheral blood lymphocytes with Mouse Anti Human CD55 ([SM1141P]).