

## Product datasheet for **AM08312PU-N**

### CD55 / DAF Mouse Monoclonal Antibody [Clone ID: MEM-118]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	MEM-118
Applications:	FC, IHC, IP
Recommended Dilution:	<b>Flow Cytometry:</b> 10 µg/ml. <b>Immunohistochemistry on Paraffin Sections:</b> 10 µg/ml. <b>Immunoprecipitation.</b>
Reactivity:	Human, Primate
Host:	Mouse
Isotype:	IgM
Clonality:	Monoclonal
Immunogen:	HPB-ALL Human T cell line.
Specificity:	Recongizes an epitope in SCR4 domain of CD55 (Decay accelerating factor, DAF), a 60-70 kDa glycosylphosphatidylinositol (GPI)-anchored single chain glycoprotein. CD55 is widely expressed on hematopoietic and on many non-hematopoietic cells; it is weakly present on NK cells.
Formulation:	PBS ~ pH 7.4 containing 15 mM Sodium Azide as preservative. State: Purified State: Liquid purified Ig fraction.
Concentration:	lot specific
Purification:	Size Exclusion Chromatography.
Conjugation:	Unconjugated
Storage:	Store the antibody 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)
Database Link:	<a href="#">Entrez Gene 1604 Human P08174</a>



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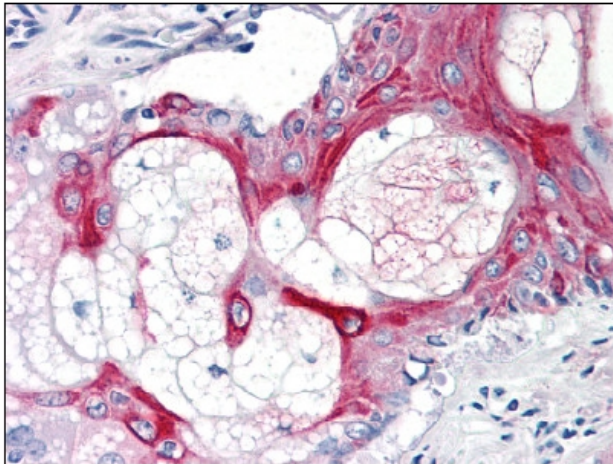
**Background:**

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:**

Skin, pilosebaceous unit: Formalin-Fixed Paraffin-Embedded (FFPE)