

## Monoclonal Antibody to CD55 / DAF - PE

<b>Alternate names:</b>	Complement decay-accelerating factor
<b>Catalog No.:</b>	SM1141RT
<b>Quantity:</b>	25 Tests
<b>Background:</b>	CD55 is the complement regulatory protein, decay accelerating factor (DAF). It is a 70kD 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.
<b>Uniprot ID:</b>	<a href="#">P08174</a>
<b>NCBI:</b>	<a href="#">9606</a>
<b>Host / Isotype:</b>	Mouse / IgG1
<b>Clone:</b>	67
<b>Immunogen:</b>	K562 cells
<b>Format:</b>	<b>State:</b> Lyophilized purified IgG fraction. <b>Purification:</b> Affinity chromatography on Protein G. <b>Buffer System:</b> PBS, pH 7.4 containing 0.09% Sodium Azide as preservative and 1% BSA as stabilizer. <b>Label:</b> PE – R. Phycoerythrin (RPE) <b>Reconstitution:</b> Restore with distilled water.
<b>Applications:</b>	Flow cytometry. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody reacts to CD55, also known as DAF. <b>Species:</b> Human. Other species not tested.
<b>Storage:</b>	Prior to and following reconstitution store the antibody undiluted at 2-8°C. <b>DO NOT FREEZE!</b> This product is photosensitive and should be protected from light. Shelf life: one year from despatch.
<b>Product Citation:</b>	Unconjugated antibody is cited in: 1. Katrin Wenzel, Joanna Zabojszcza, Miriam Carl, Semjon Taubert, Antje Lass, Claire L.

**For research and in vitro use only. Not for diagnostic or therapeutic work.**

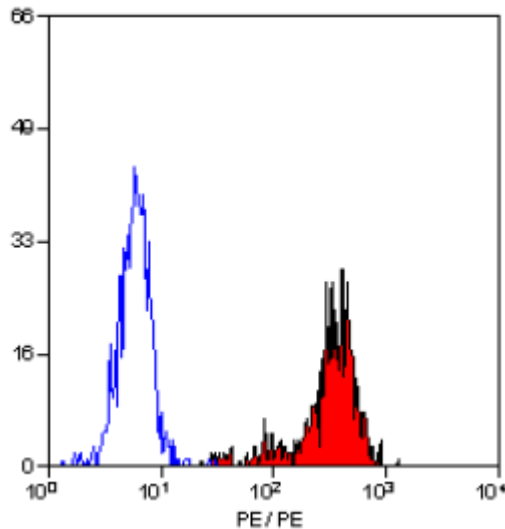
Material Safety Datasheets are available at [www.acris-antibodies.com](http://www.acris-antibodies.com) or on request.

Antibody Hotline - Technical Questions - Antibody Location Service  
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Harris, Mengfatt Ho, Herbert Schulz, Oliver Hummel, Norbert Hubner, Karl Josef Osterziel, and Simone Spuler. 'Increased Susceptibility to Complement Attack due to Down-Regulation of Decay-Accelerating Factor/CD55 in Dysferlin-Deficient Muscular Dystrophy' J. Immunol., Nov 2005; 175: 6219-6225.

**General References:** 1. Hadam, M.R. (1989) In Leucocyte Typing IV: White Cell Differentiation Antigens. Edited by Knapp, W. et al. Oxford University Press pp 694-697.

**Pictures:**



Staining of human peripheral blood monocytes with Mouse Anti Human CD55-RPE (SM1141R/RT).

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