

## DESCRIPTION

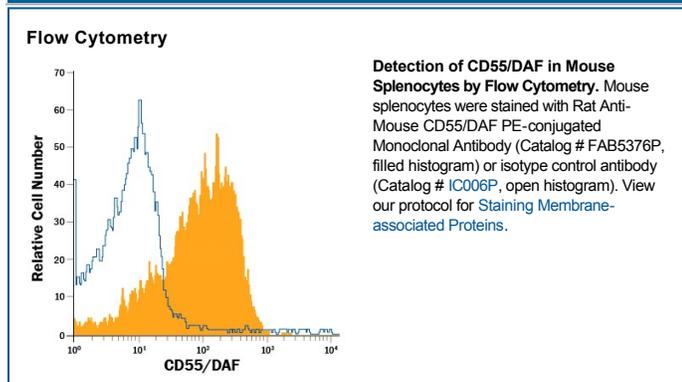
<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse CD55/DAF in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human CD55 or recombinant mouse CD97 is observed.
<b>Source</b>	Monoclonal Rat IgG <sub>2A</sub> Clone # 583905
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant mouse CD55/DAF Met1-Pro359 Accession # Q61475
<b>Conjugate</b>	Phycoerythrin Excitation Wavelength: 488 nm Emission Wavelength: 565-605 nm
<b>Formulation</b>	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.  *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
<b>Flow Cytometry</b>	10 $\mu$ L/10 <sup>6</sup> cells	See Below

## DATA



## PREPARATION AND STORAGE

<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<b>Protect from light. Do not freeze.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, 2 to 8 °C as supplied.</li> </ul>

## BACKGROUND

CD55, also known as Decay-accelerating Factor/DAF, is a glycoprotein member of the RCA family of molecules. It is found on all blood cells, select epithelium and endothelium, and serves both as a receptor for CD97, and a negative regulator of the C3 convertases, C4b2a and C3bBb. Mature mouse CD55 is the product of two genes that arose by duplication. There is a 55-70 kDa, 328 amino acid (aa), GPI-linked form (aa 35-362) that is ubiquitously expressed and a 52-56 kDa type I transmembrane (TM) form that shows limited expression. The TM form shows the same domain architecture and is 93% aa identical to the GPI-form. At least three GPI gene isoforms exist. One contains a 21 aa 390 substitution for aa 286, a second shows a six aa substitution for aa 339-350, and a third contains a Pro substitution for aa 333-361. Over aa 35-359, mouse CD55 is 66% and 50% aa identical to rat and human CD55, respectively.