

DESCRIPTION

Species Reactivity	Mouse
Specificity	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.
Source	Monoclonal Rat IgG _{2A} Clone # 583905
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse CD55/DAF Met1-Pro359 Accession # Q61475
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2 mg/mL 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
Flow Cytometry	0.25-1 µg/10 ⁶ cells	Mouse splenocytes

PREPARATION AND STORAGE

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

BACKGROUND

CD55 (Decay-accelerating factor/DAF) is a glycoprotein member of the RCA family of molecules. It is found on blood cells, 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 55-60 kDa, 356 amino acid (aa), GPI-linked form that is ubiquitously expressed. This molecule contains four SUSHI domains (aa 35-285), a Ser/Thr-rich region (aa 288-362), and a GPI-anchor at Gly362. There is also a 50 kDa, 379 aa, type I transmembrane form that is testis-associated. It shows the same domain architecture and is 93% aa identical to the GPI-form. At least four GPI gene isoforms exist. They diverge after Ile285 and show deletions and substitutions. Over aa 35-359, mouse CD55 is 66% and 50% aa identical to rat and human CD55, respectively.

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