

DESCRIPTION

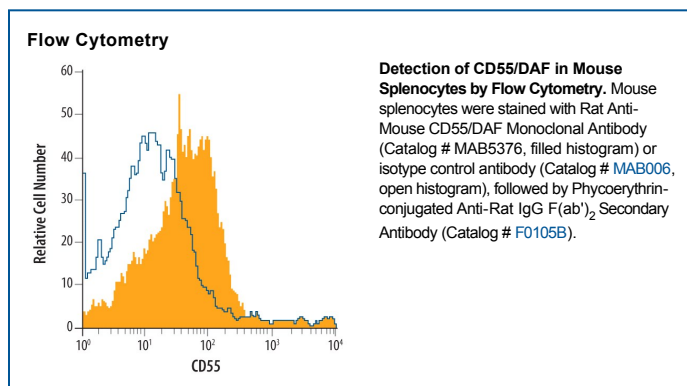
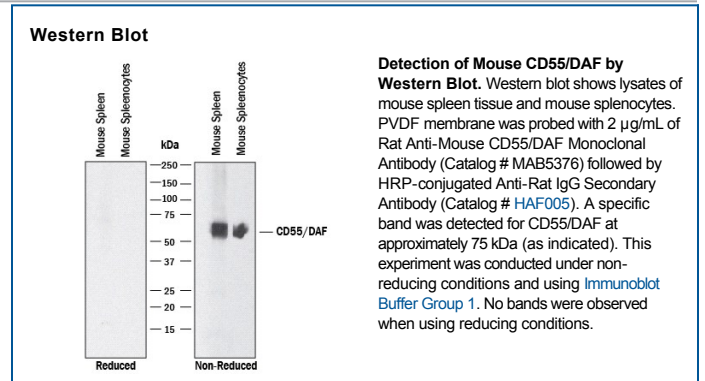
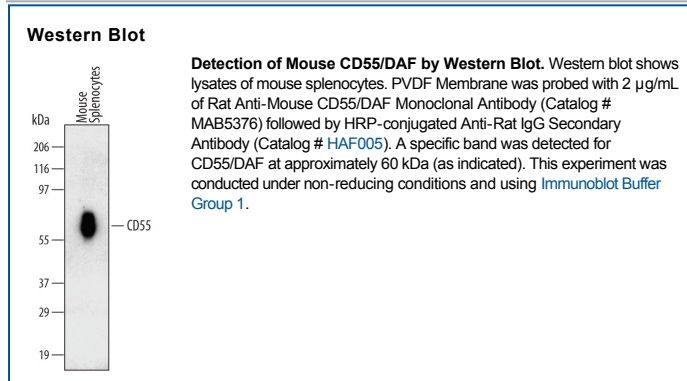
Species Reactivity	Mouse
Specificity	Detects mouse CD55/DAF in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human CD55 or recombinant mouse CD97 is observed.
Source	Monoclonal Rat IgG _{2A} Clone # 583905
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse CD55/DAF Met1-Pro359 Accession # Q61475
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

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
Western Blot	2 µg/mL	See Below
Flow Cytometry	2.5 µg/10 ⁶ cells	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA



PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.