



Datasheet for ABIN6939225 anti-CD55 antibody



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3 Images

Overview

Quantity:	100 µg
Target:	CD55
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD55 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunofluorescence (IF)

Product Details

Immunogen:	Human umbilical vein endothelial cells (HUVEC)
Clone:	F4-29D9
Isotype:	IgG1 kappa
Specificity:	Recognizes a single chain glycoprotein of 70 kDa, identified as CD55. This MAb was clustered in Kobe at the Sixth International Workshop on Human Leukocyte Differentiation Antigens as F429D-9 (N-L120). CD55/DAF is widely expressed on cells throughout the body including leukocytes, erythrocytes, epithelium, endothelium, and fibroblasts. It is a Glycosyl phosphatidylinositol anchored (GPI-anchored) member of the membrane bound complement regulatory proteins that inhibit autologous complement cascade activation. It prevents the amplification steps of the complement cascade by interfering with the assembly of the C3-convertases, C4b2a and C3bBb, and the C5-convertase, C4b2a3b and C3bBb3b. CD55 also serves as receptor for CD97 and for echovirus and Coxsackie B virus. Anti-CD55 can be used as marker for paroxysmal nocturnal hemoglobinuria (PNH).

Product Details

Purification: Purified by Protein A/G

Target Details

Target: CD55

Alternative Name: CD55 ([CD55 Products](#))

Molecular Weight: 70kDa

Gene ID: 1604

UniProt: [P08174](#)

Pathways: [Complement System](#), [Regulation of Leukocyte Mediated Immunity](#)

Application Details

Application Notes: Positive Control: Jurkat, HUT-78, K562, YT, U937, MG63 and human lymphocytes. Human lymph nodes and tonsils.
Known Application: Flow Cytometry (1-2 µg/million cells), Immunofluorescence (1-2 µg/mL) Optimal dilution for a specific application should be determined.

Restrictions: For Research Use only

Handling

Concentration: 200 µg/mL

Buffer: 10 mM PBS with 0.05 % BSA & 0.05 % azide.

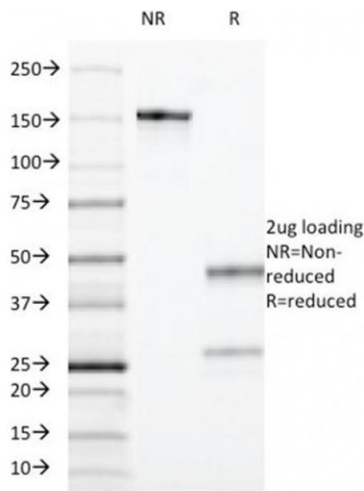
Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C, -80 °C

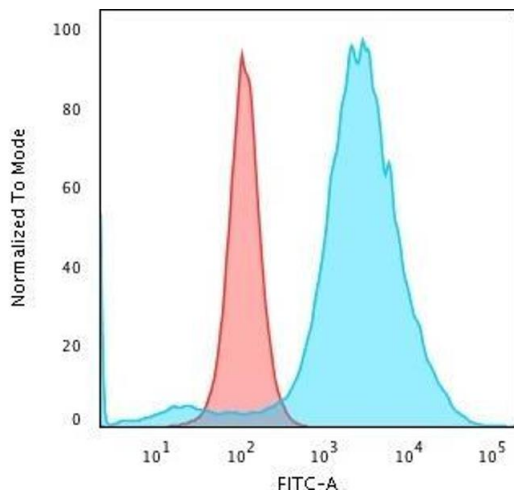
Storage Comment: Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Expiry Date: 24 months



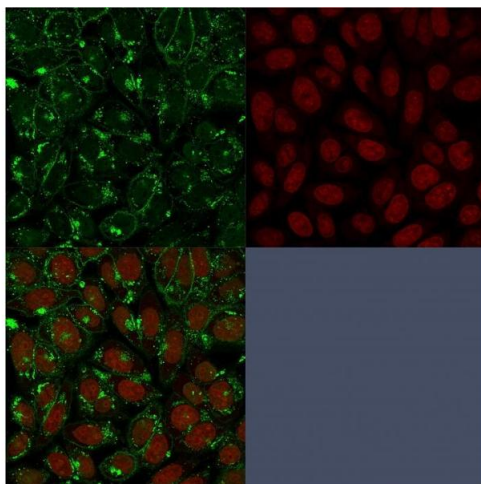
SDS-PAGE

Image 1. SDS-PAGE Analysis Purified CD55 Mouse Monoclonal Antibody (F4-29D9) . Confirmation of Integrity and Purity of Antibody.



Flow Cytometry

Image 2. Flow Cytometric Analysis of paraformaldehyde-fixed HeLa cells with CD55 Mouse Monoclonal Antibody (F4-29D9) followed by goat anti-Mouse IgG-CF488 (Blue) Isotype Control (Red)



Immunofluorescence

Image 3. Immunofluorescent staining of paraformaldehyde-fixed HeLa cells with CD55 Mouse Monoclonal Antibody (F4-29D9) followed by goat anti-Mouse IgG-CF488 (Green). Counterstain is RedDot.