Datasheet

Mouse mAb to **CD55**
Clone **F4-29D9**
Isotype **IgG1-κ**

Source

A BALB/c mouse was immunized with human umbilical vein endothelial cells.
Fusion partner: X63Ag8/653.

Specifications

F4-29D9 reacts with CD55 or DAF (Decay Accelerating Factor). All leucocytes as well as human erythrocytes, fibroblasts, platelets, endothelial cells and neuroectodermal cells are positive for DAF. F4-29D9 also recognizes an antigen on spermatozoid cells. It is a glycosylphosphatidylinositol anchored (GPI-anchored) member of the membrane bound complement regulatory proteins that inhibit autologous complement cascade activation. CD55 also serves as receptor for CD97 and for echovirus and coxsackie B virus. DAF is deficient in both granulocytes and monocytes in patients with paroxysmal nocturnal haemoglobinuria.

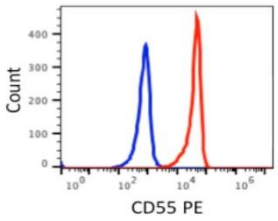

Figure 1: Human PBMCs stained with F4-29D9 (FACS).

Species reactivity

Positive: human.

Applications

Identify paroxysmal nocturnal haemoglobinuria.

Flow cytometry	Frozen sections	Immunofluorescence
+	+	+

Format

Produced in tissue culture, contains no host Ig. Antibodies are affinity purified and presented in PBS with 0,02% sodium azide.
Stored at 4°C-8°C, shelf life is at least 24 months after purchase.

Dilution advice

- Flow cytometry (0,5-1,0 µg/million cells in 0,1 ml).
- Immunofluorescence (0,5-1,0 µg/ml).
- Immunohistology (1-2 µg/ml for 30 min at RT; an appropriate antigen retrieval method for staining of formalin-fixed tissues has not been established to date).

Positive control

Jurkat, HUT-78, K562, YT, U937, MG63, and human lymphocytes, human lymph nodes and tonsils.

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References

- Kishimoto T. et al., eds. Leukocyte Typing VI, Garland Publishing, Inc, New York and London, (1997).
- B.E. Loveland - in Leucocyte Typing VI - Part 6 – Known Non-Lineage CD Antigens - NL11 - CD55 Workshop Panel Report pp519-520, (1997).
- Ruix-Delgado, GJ et al, *Hematology* **14**: 33-7 (2009).