Datasheet

Mouse mAb to **CD53**
Clone **161-2**
Isotype **IgG2a-κ**

Source

A BALB/c mouse was immunized with stimulated human PBL.
Fusion partner: NS-1.

Specifications

CD53 is a 33-55 kDa protein expressed on monocytes and macrophages, dendritic cells, osteoblasts and osteoclasts, and on B- and T-cells from every stage of differentiation but is absent from platelets, red blood cells. CD53 appears to be the marker with widest reactivity as well as the marker with the strictest specificity to hematopoietic cells. 161-2 Partially inhibits T-cell proliferation induced by CD3 UCHT-1 antibody. 161-2 was typed in Kobe, Japan at the VIth International Workshop on human leucocyte differentiation antigens.

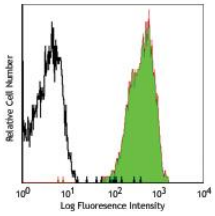

Figure 1: Human PBL stained for CD53 (FACS).

Species reactivity

Positive: human.
Negative: baboon, horse.

Applications

Detection of monocytes and macrophages, granulocytes, dendritic cells, osteoblasts and osteoclasts, and B- and T-cells.

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

Daudi, Raji, IM9, U266, YT, HUT-78, HUT-102, Jurkat, HL-60, THP-1, KG1a, human leukocytes, human tonsil and lymph node.

References

- Kishimoto T. et al., eds. Leukocyte Typing VI, p509-514, Garland Publishing, Inc, New York and London, (1997).