

Datasheet



Mouse mAb to **CD13**
Clone **EBS-CD-012**
Isotype **IgG1-κ**

Source

A BALB/c mouse was immunized with human AML cells.
Fusion partner: P3-X63-Ag8.653.

Specifications

EBS-CD-12 recognizes an extracellular epitope on an integral membrane glycoprotein of 150 kDa, identified as CD13 (also known as aminopeptidase-N). CD13 is present on most cells of myeloid origin including granulocytes, monocytes, mast cells, and GM-progenitor cells. It is also expressed by the majority of AML, CML in myeloid blast crisis, and in a smaller fraction of lymphoid leukemias. CD13 is also present on fibroblasts; endothelial cells, epithelial cells from renal proximal tubules and intestinal brush border, bone marrow stromal cells, osteoclasts, and cells lining bile duct canaliculi. CD13 plays a role in metabolism of biologically active peptides, in phagocytosis, and in bactericidal/tumoricidal activities. It also serves as a receptor for human coronaviruses (hCoV) and human cytomegalovirus (hCMV).

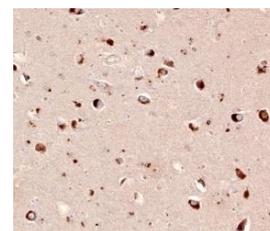


Figure 1: Human brain stained with EBS-CD-012 (paraffin).

Species reactivity

Positive: human.

Applications

CD13 forms a marker for acute myeloid leukemia.

Flow cytometry	Frozen sections	Immunofluorescence	Paraffin sections	Western blot
+	+	+	+	+

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).
- Immunoblotting (1-2 µg/ml).
- Immunofluorescence (0,5-1,0 µg/ml).
- Immunohistology (1-2 µg/ml for 30 min at RT; staining of formalin-fixed tissues requires boiling tissue sections in 10mM Citrate Buffer, pH 6,0, for 10-20 min followed by cooling at RT for 20 minutes).

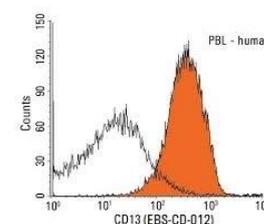


Figure 2: Human PBL stained with EBS-CD-012 (FACS).

Positive control

Human lymph node, tonsil or brain.

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References

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