

TECHNICAL DATA SHEET

CyFlow™ CD34 Azide Free Anti-Hu; Clone QBEnd-10

REF AH219541

For Research Use Only.

Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	CD34
Alternative Names	—
Clone	QBEnd-10
Clonality	monoclonal
Format	Azide Free
Host / Isotype	Mouse / IgG1
Species Reactivity	Human, Non-Human Primates
Negative Species Reactivity	Rat Cow Sheep Dog
Quantity [Concentration]	0.1 mg [1 mg/ml]
Immunogen	Human endothelial vesicles

Specificity

The mouse monoclonal antibody QBEnd-10 recognizes Class II epitope on CD34 antigen, a 110-115 kDa monomeric transmembrane phosphoglycoprotein expressed on hematopoietic progenitors cells and

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on the most pluripotential stem cells; it is gradually lost on progenitor cells. This antibody has been also used as an endothelial marker.

Application

Based on published sources, this antibody is suitable for the following applications:

- Flow cytometry
- Immunoprecipitation
- Western blot
- Immunohistochemistry
- Functional assays

Storage Buffer

The reagent is provided in azide-free phosphate buffered saline (PBS) solution, pH ≈7.4; 0.2 µm filter sterilized.

Storage and Stability

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
Stability	Do not use after expiration date stamped on vial label.

Background Information

CD34 (Mucosialin) is a highly glycosylated monomeric 111-115 kDa surface protein, which is present on many stem cell populations. It is a well established stem cell marker, though its expression on human hematopoietic stem cells is reversible. CD34 probably serves as a surface receptor that undergoes receptor-mediated endocytosis and regulates adhesion, differentiation and proliferation of hematopoietic stem cells and other progenitors. CD34 expression is likely to represent a specific state of hematopoietic development that may have altered adhering properties with expanding and differentiating capabilities in both in vitro and in vivo conditions.

References

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The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

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