

Product datasheet for **SM1095PT**

CD34 Class II Mouse Monoclonal Antibody [Clone ID: QBEND/10]

Product data:

Product Type: Primary Antibodies

Clone Name: QBEND/10

Applications: FC, IHC, IP, WB

Recommended Dilution: **Western Blot.**

Immunoprecipitation.

Flow Cytometry: Use 10 µl of 1/100-1/200 diluted antibody to label 10e6 cells in 100 µl.

Immunohistochemistry on Frozen Sections.

Immunohistochemistry on Paraffin Sections: 1/500-1/1000. This product does not require antigen retrieval using heat treatment or protein digestion. However staining of paraffin embedded formalin fixed tissues may be enhanced by enzyme pre-treatment using pronase or heat treatment using citrate buffer.

Recommended Positive Control: Tonsil, Bone Marrow.

Reactivity: Human, Monkey

Host: Mouse

Isotype: IgG1

Clonality: Monoclonal

Immunogen: Human endothelial cell membrane vesicles.

Spleen cells from immunised NZB mice were fused with cells of the mouse NSO myeloma cell line.

Specificity: This antibody recognises the Class II epitope on CD34.

Ultrastructure studies, using an indirect immunogold technique on ultra thin sections of human umbilical artery, have revealed that this antigen is associated to a degree with the basoluminal surfaces of endothelium, a slight reaction with an intracytoplasmic vesicular compartment is shown.

Predominant staining is on the endothelial cell membrane. Some cross reactions with vascular associated adventitia and some basement membranes.

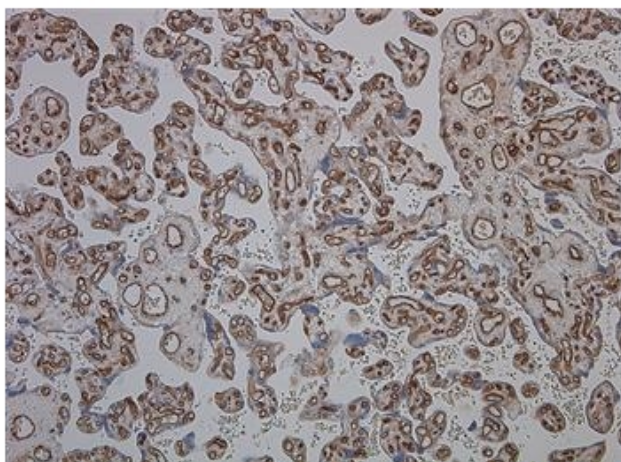
Clone QBEND-10 immunoprecipitates a glycoprotein of Mr 110 kD expressed on haemopoietic cells and on the established myeloid leukemic cell line KG1a.



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Formulation:	PBS containing 0.09% Sodium Azide as preservative State: Purified State: Liquid purified IgG fraction
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein A
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	CD34 molecule
Database Link:	Entrez Gene 947 Human P28906
Background:	CD34 is a single chain transmembrane glycoprotein of 105 - 120kD. Expressed on haemopoietic cells, including bone marrow and blood. It is expressed on the majority of cells in acute lymphoid leukaemia (ALL) as well as cells in acute myelogenous leukaemia (AML). It is also found on capillary endothelial cells. There are three classes of CD34 epitopes defined by differential sensitivity to enzymatic cleavage with glycoprotease from Pasteurella haemolytica and with neuraminidase.
Synonyms:	Hematopoietic progenitor cell marker

Product images:



Paraffin processed placenta stained with Mouse anti Human CD34 Class II antibody.