

Mouse anti-Human, Dog CD34 Monoclonal Antibody | anti-CD34 antibody

CD34

CATALOG # AAA59186	HOST Mouse	REACTIVITY Human, Dog
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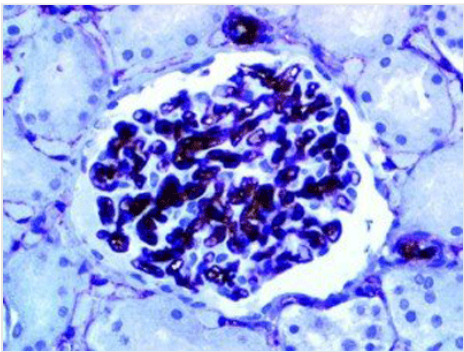
PRODUCT SYNONYMS

CD34; Monoclonal Antibody; anti-CD34 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Dog
Clonality	Monoclonal
Isotype	IgG1
Clone Number	QBEnd/10
Form/Format	CD34 is a mouse monoclonal antibody derived from cell culture supernatant that is concentrated, dialyzed, filter sterilized and diluted in buffer pH 7.5, containing BSA and sodium azide as a preservative.
Immunogen	Human endothelial vesicles.
Control	Tonsil, Placenta, Appendix
Localization	Cytoplasmic, Membranous
Reactivity Note	Paraffin, Frozen
Precautions	1. This product contains <0.1% sodium azide (NaN₃) as a preservative. Ensure proper handling procedures are used with this reagent. 2. Always wear personal protective equipment such as laboratory coat, goggles and gloves when handling reagents. 3. Dispose of unused solution with copious amount of water. 4. Do not ingest reagent. If reagent is ingested, seek medical advice immediately. 5. Avoid contact with eyes. If contact occurs, flush with large quantities of water. 6. Follow safety precautions of the heating device used for epitope retrieval (TintoRetriever Pressure Cooker or similar). 7. For additional safety information refer to Safety Data Sheet for this product. 8. For complete recommendations for handling biological specimens, please refer to the CDC document, "Guidelines for Safe Work Practices in Human and Animal Laboratories" (see References in this document).
Mounting Protocols	For detailed instructions using biodegradable permanent mounting media such as XyGreen PermaMounter or organic solvent based resin such as PermaMounter, please inquire.
Preparation and Storage	Store at 2-8°C (Control Slides: Store at 20-25°C) Do not use after expiration date listed on package label. Temperature fluctuations should be avoided. Store appropriately when not in use, and avoid prolonged exposure to room temperature conditions.

IMAGES



IHC (Immunohistochemistry)
IHC of CD34 on a FFPE Kidney Tissue

Step	ImmunoDetector AP/HRP	PolyDetector AP/HRP	PolyDetector Plus HRP
Peroxidase/AP Blocker	5 min.	5 min.	5 min.
Primary Antibody	30-60 min.	30-60 min.	30-60 min.
1st Step Detection	10 min.	30-45 min.	15 min.
2nd Step Detection	10 min.	Not Applicable	15 min.
Substrate-Chromogen	5-10 min.	5-10 min.	5-10 min.
Counterstain / Coverslip	Varies	Varies	Varies

Application Data
ABBREVIATED IMMUNOHISTOCHEMICAL PROTOCOL

Normal Tissues	
Positive (+)	
capillaries of most tissues	umbilical artery
Vein (to a lesser extent)	
Negative (-)	
endothelium of most large Vessels	
endothelium of placental sinuses	
Abnormal Tissues	
Positive (+)	
benign tumours of blood vascular origin 22/22	
Lymphangiomias (weak focal reaction) 5/8	
Tumour cells in angiosarcoma (vasoformative areas) 17/23	
Tumour cells in angiosarcoma (solid areas) 13/24	
Proliferating vessels 40/40	
spindle cells in Kaposi's sarcoma 40/40	
Carcinoma 1/54	
spindle cell tumours 17/45	

Application Data
PRODUCT LIMITATIONS

Antibody Type	Dilution	Volume/Qty
Tinto Prediluted	Ready-to-Use	3.0 mL
Tinto Prediluted	Ready-to-Use	7.0 mL
Tinto Prediluted	Ready-to-Use	15.0 mL
Concentrated	1:50 - 1:200	0.1 mL
Concentrated	1:50 - 1:200	0.5 mL
Concentrated	1:50 - 1:200	1.0 mL

Application Data

ADDITIONAL INFORMATION

Related Product Information for anti-CD34 antibody	CD34 functions as a cell-cell adhesion factor and cell-surface glycoprotein. It may also mediate the attachment of stem cells to bone marrow extracellular matrixes or directly to stromal cells. Cells expressing CD34 are normally found in the umbilical cord and bone marrow as hematopoietic cells, and in vascular endothelium. In addition to stem cell recognition, CD34 is expressed by vascular endothelium; it appears that proliferating endothelial cells express this molecule in greater amounts than resting cells. In comparison to factor VIII R Antigen, CD34 stains are stronger and appear to be more sensitive in nature. In tumors, CD34 is found in Alveolar Soft Part Sarcoma, pre B-ALL (positive in 75%), AML(40%), AMLM7 (most), Dermatofibrosarcoma Protuberans, Gastrointestinal Stromal Tumors, Giant Cell Fibroblastoma, Granulocytic Sarcoma, Kaposi's Sarcoma, Liposarcoma, Malignant Fibrous Histiocytoma, Malignant Peripheral Nerve Sheath tumors, Meningeal Hemangiopericytomas, Meningiomas, Neurofibromas, Schwannomas, and Papillary Thyroid Carcinoma. A negative CD34 may exclude Ewing's Sarcoma/PNET, Myofibrosarcoma of the breast, and Inflammatory Myofibroblastic tumors of the stomach.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	264769
NCBI GeneID	947
UniProt Accession #	Q3C1E7; P28906; Q5JTA5; Q7Z375; Q8IUM0; Q9UH97
NCBI Official Full Name	CD34
NCBI Official Synonym Full Names	CD34 molecule
NCBI Official Symbol	CD34
NCBI Protein Information	hematopoietic progenitor cell antigen CD34; CD34 antigen; OTTHUMP00000034733; OTTHUMP00000034734
UniProt Protein Name	CD34 antigen

UniProt Gene Name	CD34
UniProt Entry Name	Q3C1E7_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cd34-antibody-clone-qbend-10-elisa/59186>