

9853 Pacific Heights Blvd. Suite D. San Diego, CA 92121, USA Tel: 858-263-4982

Email: info@abeomics.com

## 36-1927: Monoclonal Antibody to CD34 (Hematopoietic Stem Cell & Endothelial Marker)(Clone: HPCA1/763)

Clonality: Monoclonal Clone Name: HPCA1/763

Application: IHC
Reactivity: Human
Gene: CD34
Gene ID: 947
Uniprot ID: P28906
Format: Purified
Alternative Name: CD34

**Isotype:** Mouse IgG1, lambda

Immunogen Information: Recombinant full-length human HPCA1 protein

## **Description**

This MAb recognizes a single chain, transmembrane, heavily glycosylated protein of 90-120kDa, which is identified as CD34. Its expression is a hallmark for identifying pluripotent hematopoietic stem or progenitor cells. Its expression is gradually lost as lineage committed progenitors differentiate. CD34 is a marker of choice for staining blasts in acute myeloid leukemia. In addition, CD34 is expressed by soft tissue tumors, such as solitary fibrous tumor and gastrointestinal stromal tumor. Its expression is also found in vascular endothelium. Additionally, it appears that proliferating endothelial cells express this molecule more than the non-proliferating endothelial cells. Anti-CD34 labels > 85% of angiosarcoma and Kaposi s sarcoma, but with a lower specificity.

## **Product Info**

**Amount :** 100 μg

**Purification:** Affinity Chromatography

**Content:** 100 μg in 500 μl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly

toxic.

**Storage condition :** Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid

repeated freeze and thaw cycles.

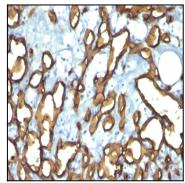
## **Application Note**

Immunohistochemistry (Formalin-fixed) (0.25-0.5ug/ml for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes);

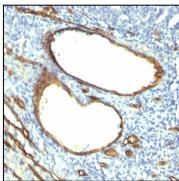


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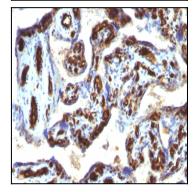
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Formalin-fixed, paraffin-embedded human Angiosarcoma stained with CD34 Monoclonal Antibody (HPCA1/763)



Formalin-fixed, paraffin-embedded human Tonsil stained with CD34 Monoclonal Antibody (HPCA1/763)



Formalin-fixed, paraffin-embedded human Placenta stained with CD34 Monoclonal Antibody (HPCA1/763)