NEUROMICS

CD34 Data Sheet

Catalog Number:	MO18004	**Host:**	Mouse
Product Type:	Protein G purified IgG_1	**Species Reactivity:**	Human
Immunogen Sequence:	Produced by immunizing BALB/c mice with blast cells of a chronic myeloid leukemia patient.	**Format:**	Liquid in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide.

Applications Immunohistochemistry-1:800 (Paraffin)

Dilutions listed as a recommendation. Optimal dilution should be determined by investigator.

References: Kosik, K.S. et al. (1988) Epitopes that span the tau molecule are shared with paired helical filaments. *Neuron* 1, 817–825.

Mawal-Dewan, M. et al. (1994) The phosphorylation state of tau in the developing rat brain is regulated by phosphoprotein phosphatases. J. Biol. Chem. 269, 30981–30987.

Storage: Antibody can be aliquotted and stored frozen at -20° C to -70° C in a manual defrost freezer for six months without detectable loss of activity. The antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. *Avoid repeated freeze-thaw cycles.*

Application Notes

Specificity
Tau (Tau46) Mouse mAb detects endogenous levels of total tau protein and also cross-reacts with MAP2 at 280kD. Tau (Tau46) Mouse mAb is predicted to detect all six isoforms of tau based on the amino acid sequence.

CD34 is a type I transmembrane glycophosphoprotein expressed by hematopoietic stem/progenitor cells (HSCs). CD34 may also stimulate proportions of adult human HSCs to differentiate into full-fledged neurons. This may open new possibilities for a high-yield production of neurons from bone marrow. In tumors, CD34 is found in alveolar soft part sarcoma, preB-ALL (positive in 75%), AML (40%), AML-M7 (most), dermatofibrosarcoma protuberans, gastrointestinal stromal tumors, giant cell fibroblastoma, granulocytic sarcoma, Kaposi's sarcoma, liposarcoma, malignant fibrous histiocytoma, malignant peripheral nerve sheath tumors, mengingeal hemangiopericytomas, meningiomas, neurofibromas, schwannomas, and papillary thyroid carcinoma.

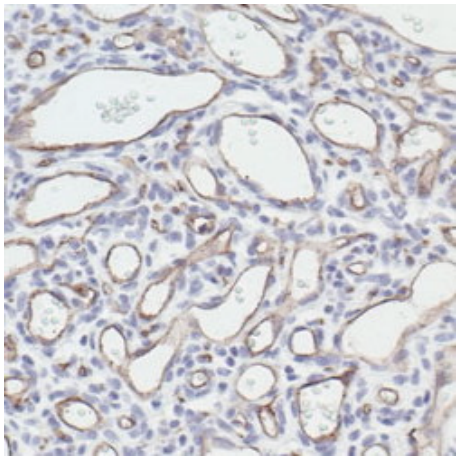

Image: CD34 staining of paraffin-embedded human capillary hemangioma.

FOR RESEARCH USE ONLY

Neuromics Antibodies • 5325 West 74th Street, Suite 8 • Edina, MN 55439
phone 866-350-1500 • fax 612-677-3976 • e-mail: pshuster@neuromics.com