

Product datasheet for **TA385696**

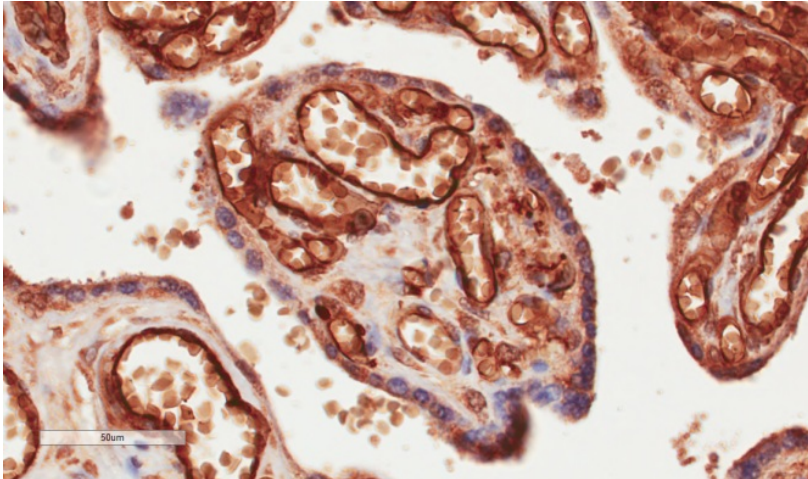
CD34 Rabbit Monoclonal Antibody [Clone ID: My10]

Product data:

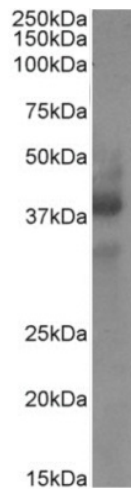
Product Type:	Primary Antibodies
Clone Name:	My10
Applications:	FC, IHC, IP
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG, kappa
Clonality:	Monoclonal
Immunogen:	KG-1a Human myeloblastic leukemic cell line (immature human myeloid cell line) from a patient with nonlymphocytic leukemia.
Specificity:	Human CD34, an ~105 - 120 kDa type 1 transmembrane glycoprotein expressed on the surface of most human hematopoietic stem and progenitor cells (HSPCs) as well as on mesenchymal stem cells, embryonic fibroblasts, endothelial cells, neurons, and some tumor cell lines.
Formulation:	PBS with 0.02% Proclin 300.
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Please store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C. Avoid freeze and thaw cycles.
Stability:	3 years from dispatch.
Gene Name:	CD34 molecule
Database Link:	Entrez Gene 947 Human P28906
Synonyms:	CD34
Note:	This chimeric rabbit antibody was made using the variable domain sequences of the original murine IgG1 format, for improved compatibility with existing reagents, assays and techniques.



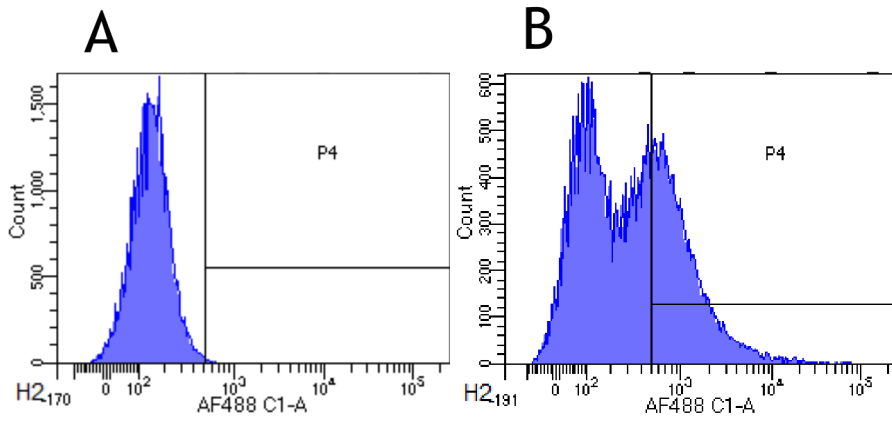
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Product images:

Immunohistochemical staining of human placenta tissue using anti-CD34 antibody (TA385696) My10. Anti-CD34 staining of paraffin embedded human placenta tissue using the rabbit-chimeric version of My10 (TA385696). Antigen retrieval was achieved by microwaving in citrate buffer (pH6), followed by blocking with protein block serum-free buffer. Primary antibody incubation with TA385696 was carried out at 4 µg/ml for 30 minutes. Samples were then incubated with an anti-rabbit IgG HRP secondary antibody for 20 mins followed by DAB (3,3'-diaminobenzidine), and counter-staining with haematoxylin. Strong endothelial staining of within villi may be observed. Recommended concentration, 2-4 µg/ml.



Western Blot using anti-CD34 antibody My10 (TA385696). Jurkat cell extract (35µg protein in RIPA buffer) was resolved on a 10% SDS PAGE gel and blots probed with the chimeric rabbit version of My10 (TA385696) at 0.1 µg/ml before detection using an anti-rabbit secondary antibody. A primary incubation of 1h was used and protein was detected by chemiluminescence. The expected band size for the canonical isoform of CD34 is 40.9kDa, though a second isoform at 35.2kDa is also present, with a 56 amino acid truncation at the C-terminus of the protein (Uniprot ID: Q64314). CD34 is also glycosylated at several positions. TA385696 successfully detected both isoforms of human CD34.



Flow-cytometry using anti-CD34 antibody My10 (TA385696). Human leukocytes were stained with an isotype control ([TA385644], panel A) or the rabbit-chimeric version of My10 (TA385696, panel B) at a concentration of 1 µg/ml for 30 mins at RT. After washing, bound antibody was detected using a AF488 conjugated donkey anti-rabbit antibody and cells analysed on a FACSCanto flow-cytometer.