



CD34 Antibody

E80108-2

Product Type:	Rabbit Polyclonal IgG, primary antibodies
Catalog Number:	E80108-2
Amount:	100ul 0.5mg/ml
Positive control:	Mouse Brain
Molecular Wt.:	~90/150kDa
Cellular Localization:	Cell Membrane
Form of Antibody:	Liquid
Storage Buffer:	1*TBS (pH7.4), 0.5%BSA, 25%Glycerol. Preservative: 0.05% Sodium Azide.
Description:	CD34 is a heavily glycosylated type I transmembrane molecule, that can be phosphorylated by a variety of kinases including Protein kinase C and Tyrosine kinases. CD34 antigen is expressed on small vessel endothelial cells and tumors of epithelial origin. CD34 is possibly an adhesion molecule with a putative role in early hematopoiesis by mediating the attachment of stem cells to the bone marrow extracellular matrix or directly to stromal cells. It could act as a scaffold for the attachment of lineage specific glycans, allowing stem cells to bind to lectins expressed by stromal cells or other marrow components. So CD34 is considered to be ideal marker for identifying and quantifying hematopoietic progenitor stem cells. With interaction with CrkL, CD34 becomes a substrate for PKC and CD34 surface expression is associated with activation of PKC.
Storage/Stability:	Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Immunogen:	The antiserum was produced against synthesized phosphopeptide derived from human GSK3β around the phosphorylation site of serine 9 (T-T-S ^P -F-A).
Purity:	Affinity purified
Specificity/Sensitivity:	This antibody is produced by immunizing rabbits with a synthetic peptide (KLH-coupled) corresponding to near C-terminal residues of CD34.
Reactivity:	Mouse,Human,Rat
Recommended Dilutions:	WB: 1:5,000 ICC: 1:250
Swiss-Prot No. :	SwissProt P28906
References:	<ol style="list-style-type: none">1. <u>Freund D.</u>, <u>Wiebe G.J.</u>, <u>Ehninger G.</u>, <u>Corbeil D.</u>; "Sequence analysis of the human CD34 antigen."; Submitted (JUN-2002) to the EMBL/GenBank/DDBJ databases.2. The MGC Project Team;"The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC)."; <u>Genome Res.</u> 14:2121-2127(2004).3. <u>Sutherland D.R.</u>, <u>Watt S.M.</u>, <u>Dowden G.</u>, <u>Karhi K.</u>, <u>Baker M.A.</u>, <u>Greaves M.F.</u>, <u>Smart J.E.</u>;"Structural and partial amino acid sequence analysis of the human hemopoietic progenitor cell antigen CD34.";Leukemia 2:793-803(1988).

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250kDa
150kDa
100kDa
75kDa
50kDa



Fig: Western blot analysis on mouse brain using anti-CD34 polyclonal antibody