

Mouse Ovine CD34 Monoclonal Antibody | anti-CD34 antibody

anti-ovine CD34 monoclonal antibody

CATALOG # AAA14097	HOST Mouse	APPLICATIONS Flow Cytometry, Functional Assay, ELISA, ELISA
------------------------------	----------------------	---

PRODUCT SYNONYMS

Ovine CD34; Monoclonal Antibody; anti-ovine CD34 monoclonal antibody; anti-CD34 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Clonality	Monoclonal
Isotype	IgG2a/kappa
Clone Number	EQ-8D11-C1
Specificity	Anti-ovine CD34
Purity/Purification	Protein G purified
Form/Format	Phosphate buffered saline, pH 7.2
Sequence Length	382
Applicable Applications for anti-CD34 antibody	FCM/FACS (Flow Cytometry), ELISA, CELISA (Competitive ELISA)
Application Notes	Flow Cytometry: 1.2 ug/10 ⁶ cells ELISA: 1:200-1:400 CELISA: 1:200 - 1:400 For each application a titration should be performed to determine the optimal concentration.
Immunogen	Genetic immunisation with cDNA encoding the extracellular domain of ovine CD34
Selection	Based on recognition of the complete native protein expressed on transfected mammalian cells.
Preparation and Storage	Short term: 2-8°C; long term: -20°C. (Avoid repeated freezing and thawing)

IMAGES



Application Data

Fig.2: CGE analysis of purified EQ-8D11-C1 monoclonal antibody. Lane 1: molecular weight marker, Lane 2: 2ug of purified EQ-8D11-C1 antibody. Proteins were separated by CGE (capillary gel electrophoresis, Agilent 2100 Bioanalyzer). Internal control bands (240 kDa / 7 kDa / 4,5 kDa).The antibody was purified by protein G affinity chromatography from cell culture supernatants and verified by CGE (Fig.2).



FCM (Flow Cytometry)

Flow Cytometry analysis of BOSC23 cells using EQ-8D11-C1 Cat.# AAA14097. BOSC23 cells were transiently transfected with an expression vector encoding either CD34 (red curve) or an irrelevant protein (control transfectant: blue and green curves). Binding of EQ-8D11-C1 was detected with a PE-conjugated secondary antibody. A positive signal was obtained only with CD34 transfected cells.

ADDITIONAL INFORMATION

Related Product Information for anti-CD34 antibody	CD34 is a type I membrane protein with an apparent MW of approximately 115 kDa. It is a putative adhesion molecule with a role in early hematopoiesis by mediating the attachment of stem cells to the bone marrow extracellular matrix or directly to stromal cells. CD34 is expressed specifically on immature normal human marrow cells, including hematopoietic progenitor cells (2). It is thought to 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.
References	Shaw, SWS et al 2011: Sheep amniotic fluid derived CD34+ stem cells could engraft and restore the hematopoietic system of NSG mice. ISSCR 9th annual meeting, Poster board #2416 Porada CD et al (2008): Development and characterization of a novel CD34 monoclonal antibody that identifies sheep hematopoietic stem/progenitor cells. Exp Hematol, 36/12: 1739-1749. Civin CI et al (1984): Antigenic analysis of hematopoiesis. III. A hematopoietic progenitor cell surface antigen defined by a monoclonal antibody raised against KG-1a cells. J Immunol. 133/1: 157-65.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4996449
NCBI GeneID	281051
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
UniProt Gene Name	CD34
UniProt Entry Name	Q9XS61_BOVIN

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/monoclonal/ovine-cd34-antibody-clone-eq-8d11-c1-flow-cytometry-competitive-elisa-elisa/14097>