

Mouse CD31 Monoclonal Antibody | anti-CD31 antibody

MOUSE ANTI PIG CD31:Biotin

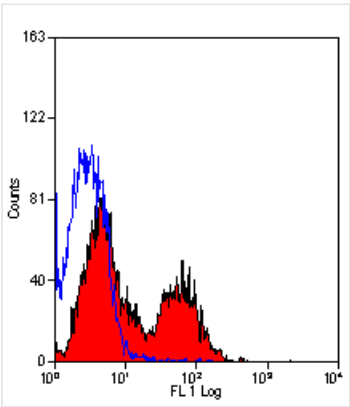
CATALOG # AAA49782	HOST Mouse	APPLICATIONS Flow Cytometry, Functional Assay
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PRODUCT SYNONYMS

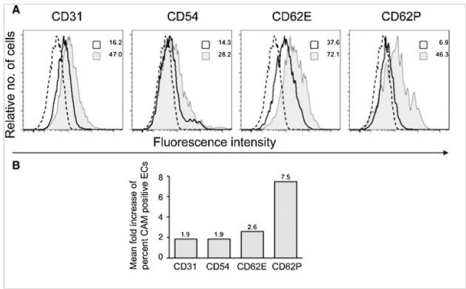
CD31; Monoclonal Antibody; MOUSE ANTI PIG CD31:Biotin; anti-CD31 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Number	LCI-4
Form/Format	Biotin Purified IgG conjugated to Biotin - liquid
Concentration	IgG concentration 0.5 mg/ml (varies by lot)
Sequence Length	740
Applicable Applications for anti-CD31 antibody	FCM/FACS (Flow Cytometry)
Perservative Stabilisers	0.09% Sodium Azide 1% Bovine Serum Albumin Preparation
Buffer Solution	Phosphate buffered saline
Target Species	Pig
Preparation and Storage	Store at 4 degree C or at -20 degree C if preferred. This product should be stored undiluted. Storage in frost free freezers is not recommended. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use. Shelf Life: 18 months from date of despatch.



Application Data
Staining of porcine peripheral blood lymphocytes with Mouse anti Porcine CD31:FITC



Application Data
Published customer image: CAM expression in *M. suis* infected endothelial cells. The expression profiles of adhesion molecules on endothelial cells were analyzed using a FACSCanto II cell sorting system. A. Dashed lines represent the isotype control; solid lines represent cells incubated with the negative control preparation; grey histograms represent PEDSV.15 cells incubated with *M. suis* (1 x 10⁴ cells/mL). B. Percent increase in expression ICAM-1 (CD54), PECAM-1 (CD31), E (CD62E)- and P (CD62P)-selectin in ECs infected with *M. suis*. From: Sokoli, A. et al. *Myoplasma Suis* Infection Results Endothelial Cell Damage and Activation: New Insight into the Cell Tropism and Pathogenicity of Hemotrophic Mycoplasma. *Veterinary Research* 44, no. 1 (2013): 6.

ADDITIONAL INFORMATION

Related Product Information for anti-CD31 antibody	Mouse anti Pig CD31, clone LCI-4 recognizes porcine CD31, also known as Platelet endothelial cell adhesion molecule (PECAM-1). CD31 is constitutively expressed by platelets, monocytes and some lymphocytes, it is expressed by endothelial cells at a level, an order of magnitude greater that of other cell types (Fawcett et al.1995). The extracellular region contains six Ig-like domains. Clone LCI-4 is cross reactive with human CD31 and binds to the 5th extracellular Ig domain, proximal to the transmembrane region as demonstrated by human CD31 domain deletion mutant protein binding studies (Nasu et al.1999). Mouse anti Pig CD31, clone LCI-4 immunoprecipitates a protein of ~130kDa from lysates of porcine aortic endothelial cells and is strongly expressed at cell junctions (Nasu et al. 1999).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	47522670
NCBI GeneID	396941
NCBI Accession #	NP_999072.1
NCBI GenBank Nucleotide #	NM_213907.1
UniProt Accession #	Q95242
Molecular Weight	82,379 Da
NCBI Official Full Name	platelet endothelial cell adhesion molecule
NCBI Official Symbol	PECAM1
NCBI Official Synonym Symbols	CD31; PECAM-1
NCBI Protein Information	platelet endothelial cell adhesion molecule; platelet/endothelial cell adhesion molecule (CD31 antigen); type I transmembrane endothelial adhesion molecule
UniProt Protein Name	Platelet endothelial cell adhesion molecule
UniProt Gene Name	PECAM1
UniProt Synonym Gene Names	PECAM-1
UniProt Entry Name	PECA1_PIG

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/cd31-antibody-clone-lci-4-flow-cytometry-elisa/49782>