

Rat anti-Mouse CD31 Monoclonal Antibody | anti-CD31 antibody

Rat Anti Mouse CD31: FITC

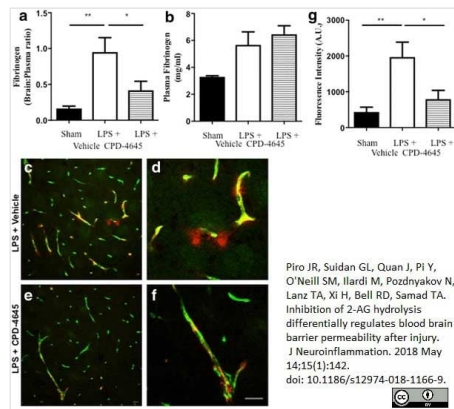
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA12258	Rat	Mouse	Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

CD31; Monoclonal Antibody; Rat Anti Mouse CD31: FITC; CD31 antibody (ER-MP12); Rat anti Mouse CD31; anti-CD31 antibody

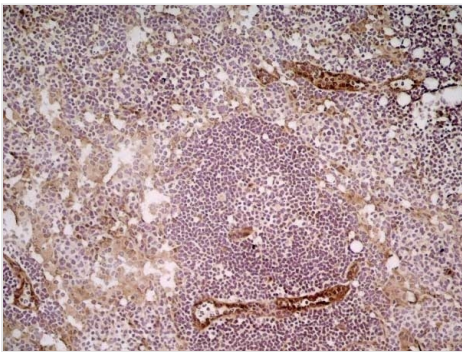
PRODUCT SPECIFICATIONS

Host	Rat
Reactivity	Mouse
Clonality	Monoclonal
Isotype	IgG2a
Clone Number	ER-MP12
Purity/Purification	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Form/Format	Liquid; Phosphate Buffered Saline
Concentration	1.0 mg/ml (varies by lot)
Sequence Length	727
Applicable Applications for anti-CD31 antibody	FCM/FACS (Flow Cytometry)
Immunogen	BALB/c macrophage precursor cell hybrids
Conjugation	FITC
Carrier Free	Yes
Fusion Partners	Cells from immunised rats were fused with the cells of the rat Y3-Ag1.2.3 myeloma cell line.
Preservative Stabilizers	0.09% Sodium Azide
Preparation and Storage	Store at 4 degree C or at -20 degree C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.



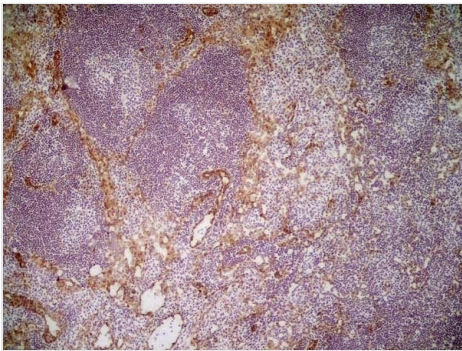
Application Data

Published Customer Image: Mouse CD31 antibody, clone ER-MP12 used for the demonstration of vasculature in mouse brain by immunofluorescence. Image caption: Inhibition of 2-AG hydrolysis reduces LPS-induced BBB permeability. a, b Fibrinogen levels in b plasma and the a ratio of brain to plasma fibrinogen were assessed by ELISA. n = 25/7 mice per group. c, d Fluorescent immunostaining in the striatum for fibrinogen (red) and vascular marker (CD31; green) demonstrated leakage of fibrinogen into the brain with vehicle treatment, whereas vascular integrity was preserved when (e, f) MAGL was inhibited. g Extravascular fibrinogen was semi-quantitated in fluorescently labeled sections of the striatum. Bar graphs were plotted with mean $\pm$ SEM and data analyzed using one-way analysis of variance (ANOVA) with Tukey post-hoc comparisons. n = 5/7 mice per group. Significance is shown as *p?



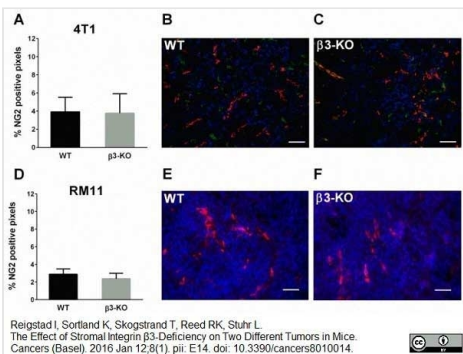
Application Data

Immunoperoxidase staining of a mouse lymph node cryosection with Rat anti Mouse CD31 antibody, clone ER-MP12 followed by horseradish peroxidase conjugated Goat anti Rat IgG antibody. High power



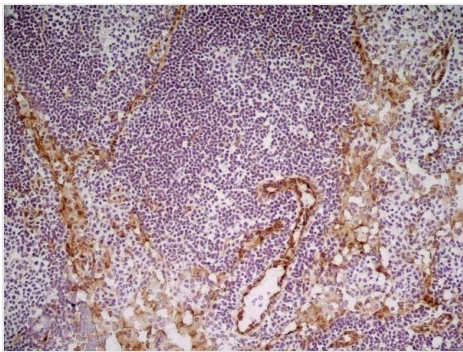
Application Data

Immunoperoxidase staining of a mouse lymph node cryosection with Rat anti Mouse CD31 antibody, clone ER-MP12 followed by horseradish peroxidase conjugated Goat anti Rat IgG antibody. Low power



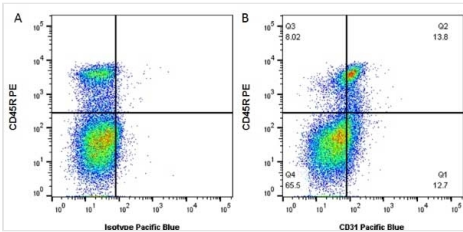
Application Data

Rat anti Mouse CD31 antibody, clone ER-MP12 used for the detection of blood vessels in an experimental murine tumor model by immunohistochemistry. Image caption: Percentage of pixels positive for NG2 in 4T1 (n = 5) and RM11 (n = 4 and n = 6) tumors (A,D) from WT and β 3-KO mice were calculated using immunofluorescent images. No statistical differences in 4T1 (p = 0.90) or RM11 (p = 0.23) were found. Mean $\pm$ SD. Representative images of NG2-staining from both genotypes of 4T1 (B,C) (NG2 green, CD31 red) and RM11 (E,F) (NG2 red) tumors are shown. Scale bars indicate 50 μ m. From: Reigstad I, Sortland K, Skogstrand T, Reed RK, Stühr L. The Effect of Stromal Integrin β 3-Deficiency on Two Different Tumors in Mice. *Cancers (Basel)*. 2016 Jan 12;8(1). pii: E14.



Application Data

Immunoperoxidase staining of a mouse lymph node cryosection with Rat anti Mouse CD31 antibody, clone ER-MP12 followed by horseradish peroxidase conjugated Goat anti Rat IgG antibody. Medium power



Application Data

Figure A. RPE conjugated rat anti mouse CD45R and FITC conjugated rat IgG2a isotype control Figure B. RPE conjugated rat anti mouse CD45R and Pacific Blue conjugated rat anti mouse CD31. All experiments performed on red cell lysed murine splenocytes gated on mononuclear cells. Data acquired on the ZE5 cell analyzer.

ADDITIONAL INFORMATION

Related Product Information for anti-CD31 antibody	Rat anti Mouse CD31 antibody, clone ER-MP12 recognizes mouse CD31, a 140 kDa cell surface glycoprotein that is expressed at high levels on endothelial cells, platelets and most leukocyte subpopulations. CD31 is also expressed on a major population of macrophage/dendritic cell precursors in the bone marrow. Studies show that clone ER-MP12 can be used in conjunction with clone ER-MP20 (MCA2389GA) in two colour flow cytometric analysis, to identify different stages of myeloid progenitor cells in mouse bone marrow (de Bruijn et al. 1998).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	585658
NCBI GeneID	18613
UniProt Accession #	Q08481
NCBI Official Full Name	Platelet endothelial cell adhesion molecule
NCBI Official Synonym Full Names	platelet/endothelial cell adhesion molecule 1
NCBI Official Symbol	Pecam1
NCBI Official Synonym Symbols	Cd31; Pecam; C85791; PECAM-1
NCBI Protein Information	platelet endothelial cell adhesion molecule
UniProt Protein Name	Platelet endothelial cell adhesion molecule
UniProt Gene Name	Pecam1
UniProt Synonym Gene Names	Pecam; Pecam-1; PECAM-1
UniProt Entry Name	PECA1_MOUSE

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.