

Datasheet for ABIN2191753

anti-CD31 antibody[Go to Product page](#)**1** Publication

Overview

Quantity:	100 µg
Target:	CD31 (PECAM1)
Reactivity:	Mouse
Host:	Rat
Clonality:	Monoclonal
Conjugate:	This CD31 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunofluorescence (IF), Immunoprecipitation (IP)

Product Details

Clone:	MEC7-46
Sterility:	0.2 µm filtered

Target Details

Target:	CD31 (PECAM1)
Alternative Name:	Pecam-1 (PECAM1 Products)
Background:	The monoclonal antibody MEC7.46 recognizes the mouse form of the platelet-endothelial cell adhesion molecule (PECAM)-1 (CD31). PECAM-1 is a member of the immunoglobulin superfamily. This heavily glycosylated protein is found in the entire vascular endothelium of adult mice and functions in mediating cellular adhesion by heterophilic and homophilic mechanisms. PECAM-1 is detected within the lymphopoietic islands in the spleen of newborn (day 12) and in the bone marrow of adult mice. Capillary endothelial cells of adult mice also

Target Details

express PECAM-1. The reactivity of the monoclonal antibody MEC7.46 is restricted to the isoform of the molecule that is selectively expressed by endothelial cells. The antibody precipitates a 130 kDa molecule present on the membrane of endothelial cells of all mouse blood vessels both in normal, inflamed and tumor tissues. The antigen is predominantly present at the lateral borders of endothelial cells as described for human PECAM-1. Staining of MEC7.46 can be seen on capillaries, veins, arteries and liver sinusoids. Aliases CD31, platelet-endothelial cell adhesion molecule-1 Immunogen Mouse t.end.1 cells (polyoma middle T (PmT)-transformed EC)

Pathways: [Regulation of Actin Filament Polymerization](#)

Application Details

Application Notes: For immunohistochemistry and flow cytometry, dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:50. Positive Mouse t.end.1 cells control Negative L929 cells (Fibroblasts) control 1

Restrictions: For Research Use only

Handling

Buffer: PBS, containing 0.1 % bovine serum albumin and 0.02 % sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C

Storage Comment: Product should be stored at 4 °C. Under recommended storage conditions, product is stable for at least one year. The exact expiry date is indicated on the label.

Publications

Product cited in: Xu, Zhang, Davison, Hu: "Circulating progenitor cells regenerate endothelium of vein graft atherosclerosis, which is diminished in ApoE-deficient mice." in: **Circulation research**, Vol. 93, Issue 8, pp. e76-86, (2003) ([PubMed](#)).