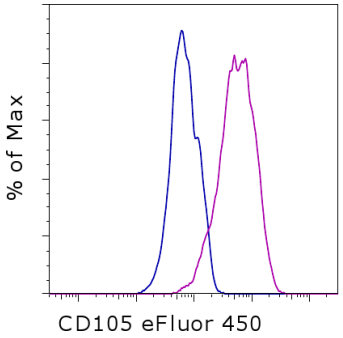
Anti-Mouse CD105 (Endoglin) eFluor® 450

Catalog Number: 48-1051
Also known as:
RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of bEnd.3 cell Line with 0.5 ug of Rat IgG2a kappa Isotype Control eFluor® 450 (cat. 48-4321) (blue histogram) or 0.5 ug of Anti-Mouse CD105 (Endoglin) eFluor® 450 (purple histogram). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse CD105 (Endoglin) eFluor® 450
REF **Catalog Number:** 48-1051
Clone: MJ7/18
Concentration: 0.2 mg/mL
Host/Isotype: Rat IgG2a, kappa

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Temperature Limitation: Store at 2-8°C. Do not freeze. Light sensitive material.
LOT **Batch Code:** Refer to vial
Use By: Refer to vial

Description

The MJ7/18 monoclonal antibody reacts with the mouse CD105 molecule, also known as Endoglin. This 90 kDa disulfide-linked homodimer is expressed by vascular endothelial cells. It is suggested that CD105 functions in adhesion and embryonic angiogenesis.

Applications Reported

This MJ7/18 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This MJ7/18 antibody has been tested by flow cytometric analysis of bEnd.3 cells. This can be used at less than or equal to 1 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

eFluor® 450 is a replacement for Pacific Blue®. eFluor® 450 emits at 456 nm and is excited with the Violet laser (405 nm). Please make sure that your instrument is capable of detecting this fluorochome.

References

Ge, A. Z. and E. C. Butcher. 1994. Cloning and expression of a cDNA encoding mouse endoglin, an endothelial cell TGF-beta ligand. Gene 138(1-2): 201-6.

Tokita D, Ohdan H, Onoe T, Hara H, Tanaka Y, Asahara T. Liver sinusoidal endothelial cells contribute to alloreactive T-cell tolerance induced by portal venous injection of donor splenocytes.Transpl Int. 2005 Feb;18(2):237-45.

Quintanilla M, Ramirez JR, et al. 2003. Expression of the TGF-beta coreceptor endoglin in epidermal keratinocytes and its dual role in multistage mouse skin carcinogenesis. Oncogene. 22(38):5976-85. (MJ7/18, IHC formalin-fixed and WB, PubMed)

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Onoe T, Ohdan H, et al. 2005. Liver sinusoidal endothelial cells tolerize T cells across MHC barriers in mice. J Immunol. 175(1):139-46. (MJ7/18, IHC frozen, PubMed)

Korpanty G, Carbon JG, et al. 2007. Monitoring response to anticancer therapy by targeting microbubbles to tumor vasculature. Clin Cancer Res. 13(1):323-30. (MJ7/18, IHC frozen, PubMed)

Perez-Gomez E, Villa-Morales M, et al. 2007. A role for endoglin as a suppressor of malignancy during mouse skin carcinogenesis. Cancer Res. 67(21):10268-77. (MJ7/18, WB, PubMed)

Related Products
48-4321 Rat IgG2a K Isotype Control eFluor® 450 (eBR2a)

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