

APC Anti-Mouse CD105 Antibody[MJ7/18]

Catalog Number: E-AB-F1233UE

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Reactivity	Mouse
Host	Rat
Isotype	Rat IgG2a, κ
Clone No.	MJ7/18
Isotype Control	APC Rat IgG2a, κ Isotype Control[2A3] [Product E-AB-F09833E]
Conjugation	APC
Conjugation Information	APC is designed to be excited by the Red (627-640 nm) laser and detected using an optical filter centered near 660 nm (e.g., a 660/20 nm bandpass filter).
Storage Buffer	Phosphate buffered solution, pH 7.2, containing 0.09% sodium azide and 1% BSA.

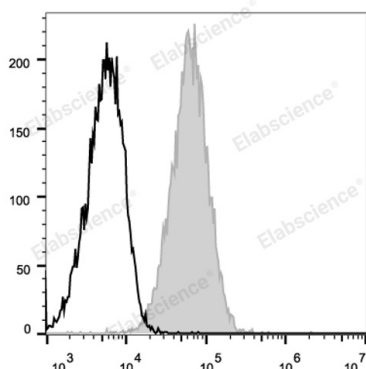
Applications

Recommended usage

FCM

Each lot of this antibody is quality control tested by flow cytometric analysis. Please check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for individual use. We suggest each investigator should titrate the reagent to obtain optimal results [The recommended concentration is 0.1-1 $\mu\text{g}/10^6$ cells in 100 μL volume].

Data



Mouse endothelial cells (bEnd.3) are stained with APC Anti-Mouse CD105 Antibody (filled gray histogram). APC Mouse IgG2a, κ Isotype Control stained cells are used as control.

Preparation & Storage

Storage	Keep as concentrated solution. This product can be stored at 2-8°C for 12 months. Please protected from prolonged exposure to light and do not freeze.
Shipping	Ice bag

Antigen Information

Alternate Names	END;Endoglin;Eng
Uniprot ID	Q63961
Gene ID	13805

For Research Use Only

Background

CD105 is a 90 kD homodimeric type I integral membrane glycoprotein, also known as endoglin. It is expressed on endothelial cells (especially on angiogenic endothelial cells) and upregulated by hypoxia, activated monocytes, macrophages, bone marrow stromal cells, and some cytotrophoblasts. CD105 is a receptor for TGF- β 1, TGF- β 3 and modulates TGF- β signaling by interacting with TGF- β receptors I and/or II. CD105 also binds other growth factors such as activin A, BMP-2, and BMP-7. CD105 has been shown to be a useful marker for identifying proliferating endothelium involved in tumor angiogenesis and can be used for tumor imaging and prognosis, and has therapeutic potential for some solid tumors and other angiogenic diseases.