

## APC Anti-Mouse CD105 Antibody[MJ7/18]

**Catalog Number:** E-AB-F1233E

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

### Description

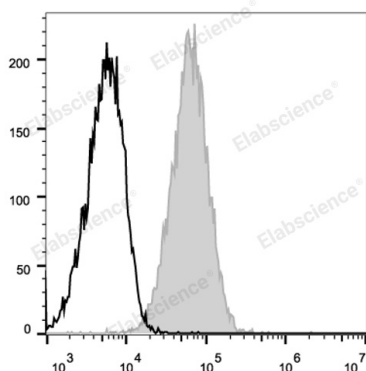
|                                |  |
|--------------------------------|--|
| <b>Reactivity</b>              | Mouse  |
| <b>Host</b>                    | Rat  |
| <b>Isotype</b>                 | Rat IgG2a, $\kappa$  |
| <b>Clone No.</b>               | MJ7/18   |
| <b>Isotype Control</b>         | APC Rat IgG2a, $\kappa$ Isotype Control[2A3] [Product E-AB-F09832E]  |
| <b>Conjugation</b>             | APC  |
| <b>Conjugation Information</b> | 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). |
| <b>Storage Buffer</b>          | Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer and 1% protein protectant.  |

### Applications

### Recommended usage

|            |  |
|------------|--|
| <b>FCM</b> | Each lot of this antibody is quality control tested by flow cytometric analysis. <b>The amount of the reagent is suggested to be used 5 <math>\mu</math>L of antibody per test (million cells in 100 <math>\mu</math>L staining volume or per 100 <math>\mu</math>L of whole blood).</b> Please check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for individual use. |
|------------|--|

### Data



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

### Preparation & Storage

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

### Antigen Information

|                        |                  |
|------------------------|------------------|
| <b>Alternate Names</b> | END;Endoglin;Eng |
| <b>Uniprot ID</b>      | Q63961           |
| <b>Gene ID</b>         | 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- $\beta$ 1, TGF- $\beta$ 3 and modulates TGF- $\beta$  signaling by interacting with TGF- $\beta$  receptors I and/or II. CD105 also binds other growth factors such as actin 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.

## For Research Use Only