

A Reliable Research Partner in Life Science and Medicine

## Elab Fluor® 700 Anti-Mouse CD105 Antibody[MJ7/18]

Catalog Number: E-AB-F1233UM1

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

### **Description**

Reactivity Mouse Rat Host

Isotype Rat IgG2a, ĸ MJ7/18 Clone No.

**Isotype Control** Elab Fluor® 700 Rat IgG2a, κ Isotype Control[2A3] [Product E-AB-F09833M1]

Conjugation Elab Fluor®700

**Conjugation Information** Elab Fluor® 700 is designed to be excited by the Red laser (627-640 nm) and detected

using an optical filter centered near 719 nm (e.g., a 725/40 nm bandpass filter).

Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer. Storage Buffer

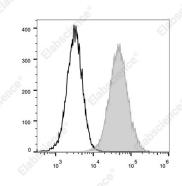
#### **Applications** Recommended usage

**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  $\mu g/10^6$  cells

#### in 100 µL volume].

#### Data



Staining of the Mouse endothelial cells (bEnd.3) with Elab

Fluor® 700 Anti-Mouse CD105 Antibody[MJ7/18](filled gray histogram) or Elab Elab Fluor® 700 Rat IgG2a, κ Isotype Control(empty black histogram). Total viable cells were used for analysis.

#### **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

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# Elabscience®

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#### **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-β1, TGF-β3 and modulates TGF- $\beta$  signaling by interacting with TGF- $\beta$  receptors I and/or II. CD105 also binds other growth factors such as actvin A, BMP-2, and BMP-7. CD105 has been show 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.

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