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# Anti-CD105-AcalephFluor647-labled

Catalog # AP101232

## Product Information

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|---|---|
| **Application** | FC, IF/IC |
| **Primary Accession** | Q63961 |
| **Reactivity** | Mouse |
| **Clonality** | Monoclonal |
| **Calculated MW** | 70021 |

## Additional Information

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| **Gene ID** | 13805 |
| **Other Names** | END; Endoglin; CD105 |
| **Target/Specificity** | Recognizes mouse CD105 |
| **Dilution** | FC~~1:10~50 IF/IC~~N/A |
| **Format** | Rat IgG2a kappa. Liquid in PBS, pH 7.3, 0.2% BSA, and 0.02% sodium azide. |
| **Storage** | Store at -20 °C.Stable for 12 months from date of receipt |

## Protein Information

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| **Name** | Eng |
| **Synonyms** | Edg |
| **Function** | Vascular endothelium glycoprotein that plays an important role in the regulation of angiogenesis (PubMed:10625534). Required for normal structure and integrity of adult vasculature (By similarity). Regulates the migration of vascular endothelial cells (PubMed:17540773). Required for normal extraembryonic angiogenesis and for embryonic heart development (PubMed:10625534). May regulate endothelial cell shape changes in response to blood flow, which drive vascular remodeling and establishment of normal vascular morphology during angiogenesis (PubMed:28530658). May play a role in the binding of endothelial cells to integrins. Acts as a TGF-beta coreceptor and is involved in the TGF-beta/BMP signaling cascade that ultimately leads to the activation of SMAD transcription factors (PubMed:23300529). Required for GDF2/BMP9 signaling through SMAD1 in endothelial cells and modulates TGFB1 signaling through SMAD3 (By similarity). |
| **Cellular Location** | Cell membrane; Single-pass type I membrane protein |

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| **Tissue Location** | Detected on blood vessels (at protein level) (PubMed:8194490). Detected on adult pulmonary artery, capillaries supporting the heart muscle and lung alveolar capillary endothelial cells (PubMed:10625534). Endoglin is restricted to endothelial cells in all tissues except bone marrow and is also found in stromal cells within the connective tissue of intestine, stomach, heart, skeletal muscle, uterus, ovary, oviduct, testis and thymus (PubMed:8194490) |

## Background

AcalephFluor647-labled rat monoclonal antibody to CD105

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.