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# Anti-CD105-AcalephFluor647-labled

Catalog # AP100480

## Product Information

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|---|---|
| **Application** | FC, IF/IC |
| **Primary Accession** | P17813 |
| **Reactivity** | Human |
| **Clonality** | Monoclonal |
| **Calculated MW** | 70578 |

## Additional Information

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| **Gene ID** | 2022 |
| **Other Names** | END; Endoglin; CD antigen CD105 |
| **Target/Specificity** | Recognizes human CD105 |
| **Dilution** | FC~~1:10~50 IF/IC~~N/A |
| **Format** | Mouse IgG1. 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** | END |
| **Function** | Vascular endothelium glycoprotein that plays an important role in the regulation of angiogenesis (PubMed:21737454, PubMed:23300529). Required for normal structure and integrity of adult vasculature (PubMed:7894484). Regulates the migration of vascular endothelial cells (PubMed:17540773). Required for normal extraembryonic angiogenesis and for embryonic heart development (By similarity). May regulate endothelial cell shape changes in response to blood flow, which drive vascular remodeling and establishment of normal vascular morphology during angiogenesis (By similarity). May play a critical role in the binding of endothelial cells to integrins and/or other RGD receptors (PubMed:1692830). 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:21737454, PubMed:22347366, PubMed:23300529, PubMed:8370410). Required for GDF2/BMP9 signaling through SMAD1 in endothelial cells and modulates TGFB1 signaling through SMAD3 (PubMed:21737454, PubMed:22347366, PubMed:23300529). |
| **Cellular Location** | Cell membrane; Single-pass type I membrane protein |

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| **Tissue Location** | Detected on umbilical veil endothelial cells (PubMed:10625079). Detected in placenta (at protein level) (PubMed:1692830). Detected on endothelial cells (PubMed:1692830) |

## Background

AcalephFluor647-labled mouse monoclonal antibody to CD105

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