

## 30-1515PE: PE Conjugated Anti-CD105 Monoclonal Antibody (Clone: MJ7/18)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	MJ7/18
<b>Application :</b>	FACS
<b>Reactivity :</b>	Mouse
<b>Conjugate :</b>	PE
<b>Gene :</b>	Eng
<b>Gene ID :</b>	13805
<b>Uniprot ID :</b>	Q63961
<b>Format :</b>	Purified
<b>Alternative Name :</b>	Eng,Edg,Endoglin
<b>Isotype :</b>	Rat IgG2a kappa
<b>Immunogen Information :</b>	Inflamed mouse skin

### Description

CD105 (endoglin) is a homodimeric transmembrane glycoprotein serving in presence of TGFbetaR-2 as a receptor for TGFbeta-1 and TGFbeta-3. CD105 is highly expressed on endothelial cells and promotes angiogenesis during wound healing, infarcts and in a wide range of tumours and its gene expression is stimulated by hypoxia. CD105 prevents apoptosis in hypoxic endothelial cells and also antagonises the inhibitory effects of TGFbeta-1 on vascular endothelial cell growth and migration. Normal cellular levels of CD105 are required for formation of new blood vessels.

Specificity: The rat monoclonal antibody MJ7/18 reacts with an extracellular epitope of CD105 (Endoglin), a 90 kDa type I homodimerizing membrane glycoprotein expressed on vascular endothelial cells (small and large vessels), activated monocytes and tissue macrophages, stromal cells of certain tissues including bone marrow, pre-B lymphocytes in fetal marrow and erythroid precursors in fetal and adult bone marrow.

### Product Info

<b>Amount :</b>	0.1 mg
<b>Purification :</b>	Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.
<b>Content :</b>	Concentration: 0.5 mg/ml Formulation: Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
<b>Storage condition :</b>	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

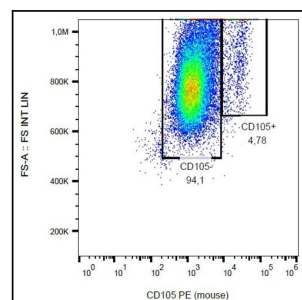


Figure 1: Flow cytometry analysis (surface staining) of CD105 in murine bone marrow with anti-CD105 (MJ7/18) PE.