

Technical Data Sheet

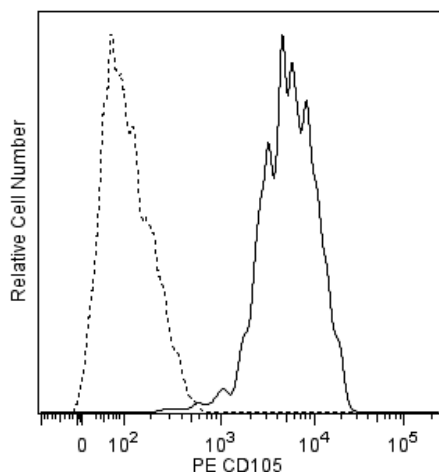
PE Rat Anti-Mouse CD105

Product Information

Material Number:	562759
Alternate Name:	Endoglin; Edg; EGLN; Eng; MJ7/18 antigen; S-endoglin
Size:	50 µg
Concentration:	0.2 mg/ml
Clone:	MJ7/18
Immunogen:	Mouse skin (inflamed)
Isotype:	Rat IgG2a, κ
Reactivity:	QC Testing: Mouse
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The MJ7/18 monoclonal antibody specifically binds to mouse CD105 (also known as endoglin) which is a homodimer of 90-kDa subunits and is predominantly expressed on vascular endothelial cells. High levels of mouse endoglin mRNA have been reported to be detectable in the ovary, uterus, NCTC-2071 fibroblasts, and to a lesser extent, in heart, muscle and stromal cells in connective tissue of various organs. Endoglin has been reported to play an essential role in embryonic angiogenesis. Both mouse and human endoglin display strong amino-acid sequence homology to the transmembrane and cytoplasmic regions of the type III TGF-β receptor.



Flow cytometric analysis of CD105 expressed on mouse bEnd.3 cell line. Mouse bEnd.3 cells (ATCC# CRL-2299) were stained with either PE Rat Anti-Mouse CD105 (Cat. No. 562759, solid line histogram) or a PE Rat IgG2a, κ Isotype Control (Cat. No. 553930; dashed line histogram). Flow cytometric fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of viable cells. Flow cytometry was performed using a BD™ LSR II Flow Cytometer System.

Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed.

Application Notes

Application

Flow cytometry	Routinely Tested
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Suggested Companion Products

Catalog Number	Name	Size	Clone
553930	PE Rat IgG2a, κ Isotype Control	0.1 mg	R35-95

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. An isotype control should be used at the same concentration as the antibody of interest.
3. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
4. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

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5. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.

References

Ge AZ, Butcher EC. Cloning and expression of a cDNA encoding mouse endoglin, an endothelial cell TGF-beta ligand. *Gene*. 1994 January; 138(1-2):201-206. (Immunogen)

Li DY, Sorensen LK, Brooke BS. Defective angiogenesis in mice lacking endoglin. *Science*. 1999; 284(5419):1534-1537. (Biology)

St-Jacques S, Cymerman U, Pece N, Letarte M. Molecular characterization and in situ localization of murine endoglin reveal that it is a transforming growth factor-beta binding protein of endothelial and stromal cells. *Endocrinology*. 1994 June; 134(6):2645-2657. (Biology)

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