

# CD105 (Endoglin) Monoclonal Antibody (SN6), Super Bright™ 645, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Super Bright™ 645, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	SN6
Conjugate	Super Bright™ 645
Excitation/Emission Max	414/645 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2717099

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunocytochemistry (ICC/IF)	-	2 Publications
Flow Cytometry (Flow)	5 µL (0.06 µg)/test	31 Publications

## Product Specific Information

**Description:** The SN6 monoclonal antibody reacts with human CD105, also known as Endoglin. CD105, an approximately 90 kDa disulfide-linked homodimer is expressed by vascular endothelial cells and some bone marrow cells and activated macrophages. It is suggested that CD105 functions in adhesion and embryonic angiogenesis.

**Applications Reported:** The SN6 antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** This SN6 antibody has been pre-titrated and tested by flow cytometric analysis of U937 cell line. This can be used at 5 µL (0.06 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Super Bright 645 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 645 nm. We recommend using a 660/20 bandpass filter. Please make sure that your instrument is capable of detecting this fluorochrome.

When using two or more Super Bright dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer for more information.

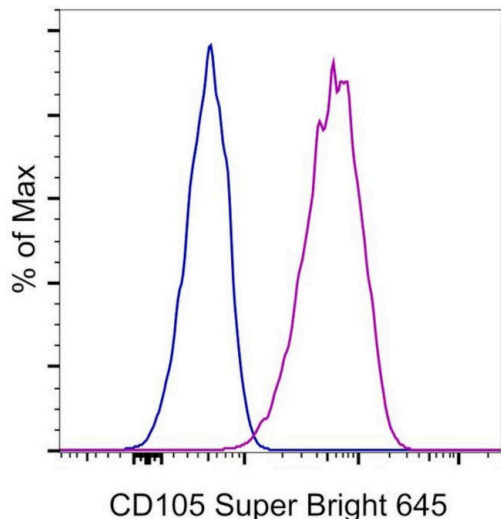
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100  $\mu$ L of cell sample + 100  $\mu$ L of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 405 nm; Emission: 645 nm; Laser: Violet Laser

Super Bright Polymer Dyes are sold under license from Becton, Dickinson and Company.

## Product Images For CD105 (Endoglin) Monoclonal Antibody (SN6), Super Bright™ 645, eBioscience™



### CD105 (Endoglin) Antibody (64-1057-42) in Flow

Staining of U937 cells with Mouse IgG1 K Isotype Control Super Bright 645 (Product # 64-4714-82) (blue histogram) or CD105 (Endoglin) Monoclonal Antibody, Super Bright 645 (purple histogram). Total viable cells were used for analysis.

[View more figures on thermofisher.com](https://www.thermofisher.com)

## Immunohistochemistry (1)

Tissue engineering. Part C, Methods

### Utilizing Confocal Microscopy to Characterize Human and Mouse Adipose Tissue.

"Published figure using CD105 (Endoglin) monoclonal antibody (Product # 64-1057-42) in Immunohistochemistry"  
 Authors: Blackshear CP, Borrelli MR, Shen EZ, Ransom RC, Chung NN, Vistnes SM, Irizarry D, Nazerali R, Momeni A, Longaker MT, Wan DC

Year  
2018

## Immunocytochemistry (2)

JBRA assisted reproduction

### The Effect of Different Doses of Melatonin on in Vitro Maturation of Human Follicular Fluid-Derived Oocyte-Like Cells.

"Published figure using CD105 (Endoglin) monoclonal antibody (Product # 64-1057-42) in Immunocytochemistry"  
 Authors: Azandeh S, Moghadam MT, Rashno M, Zargar M, Zadeh PA

Year  
2022

Tissue engineering. Part C, Methods

### Utilizing Confocal Microscopy to Characterize Human and Mouse Adipose Tissue.

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Year  
2018

## Flow Cytometry (31)

Neural regeneration research

### Exercise combined with administration of adipose-derived stem cells ameliorates neuropathic pain after spinal cord injury.

"Published figure using CD105 (Endoglin) monoclonal antibody (Product # 64-1057-42) in Flow Cytometry"  
 Authors: Cheng X, Mao GP, Hu WJ, Yu ZR, Xu YY, Chen W, Li X, Zeng XL, Zhang WW, Chen JW, Wan Y, Wang L

Year  
2023

[View more Flow references on thermofisher.com](#)

## More applications with references on thermofisher.com

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