

**Mouse Anti-CD105 (Endoglin/TGF- $\beta$  Receptor) [SN6]: MC0587, MC0587RTU7**

**Intended Use:** For Research Use Only

**Description:** CD105/Endoglin is a Type I membrane glycoprotein located on cell surfaces and is part of the TGF-beta receptor complex. This protein has been found on endothelial cells, activated macrophages, fibroblasts, and smooth-muscle cells. Endoglin has a role in the development of the cardiovascular system and in vascular remodeling. Its expression is regulated during heart development. CD105 is highly expressed in endothelial cells during tumor angiogenesis and inflammation, with weak or negative expression in vascular endothelium of normal tissues. Angiogenesis is a promising prognostic marker in a variety of tumors. Endoglin is a more specific and sensitive marker for tumor angiogenesis than CD31 or CD34, as it labels only newly-formed blood vessels and may serve as a prognostic marker for Prostate Adenocarcinoma, and cancers of the lung, stomach, breast, and brain.

**Specifications:**

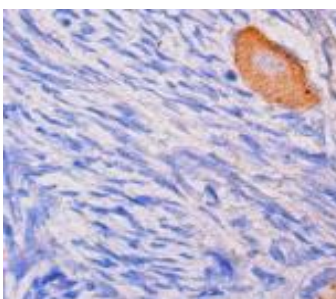
Clone: SN6  
 Source: Mouse  
 Isotype: IgG1k  
 Reactivity: Human, rat  
 Localization: Membrane  
 Formulation: Antibody in PBS pH7.4, containing BSA and  $\leq$  0.09% sodium azide (NaN<sub>3</sub>)  
 Storage: Store at 2°- 8°C  
 Applications: IHC, Flow Cyt., ICC/IF, WB  
 Package:

Description	Catalog No.	Size
CD105/Endoglin/TGF- $\beta$ Receptor Concentrated	MC0587	1 ml
CD105/Endoglin/TGF- $\beta$ Receptor Prediluted	MC0587RTU7	7 ml

**IHC Procedure\*:**

Positive Control Tissue: Ovary tissue, tonsil  
 Concentrated Dilution: 50-200  
 Pretreatment: Citrate pH6.0 or EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C  
 Incubation Time and Temp: 30-60 minutes @ RT  
 Detection: Refer to the detection system manual

\* Result should be confirmed by an established diagnostic procedure.



FFPE human ovary tissue stained with anti-CD105 using DAB

**References:**

1. Hyperbranched poly( $\epsilon$ -lysine) substrate presenting the laminin sequence IGSR induces the formation of spheroids in adult bone marrow stem cells. Perugini V, et al. PLoS One 12:e0187182, 2017.
2. Evidence of two distinct functionally specialized fibroblast lineages in breast stroma. Morsing M, et al. Breast Cancer Res 18:108, 2016.
3. Autologous adipose tissue-derived mesenchymal stem cells are involved in rat liver regeneration following repeat partial hepatectomy. Liu T, et al. Mol Med Rep 13:2053-9, 2016.

Doc. 100-MC0587  
Rev. A