

## Anti-CD105 [MJ7/18] Standard Size Ab00623-2.0

This chimeric mouse antibody was made using the variable domain sequences of the original Rat IgG2a format, for improved compatibility with existing reagents, assays and techniques.

**Isotype and Format:** Mouse IgG2a, Kappa

**Clone Number:** MJ7/18

**Alternative Name(s) of Target:** Endoglin; Cell surface MJ7/18 antigen

**UniProt Accession Number of Target Protein:** Q63961

**Published Application(s):** IP, WB, FC, IHC

**Published Species Reactivity:** Mouse

**Immunogen:** MJ7/18 was prepared by immunizing rats with inflamed mouse skin tissue. The antibody was selected immunohistologically for reactivity with endothelial cells.

**Specificity:** MJ7/18 binds specifically to mouse CD105. CD105 is a homodimer expressed by vascular endothelial cells. CD105 functions in adhesion and embryonic angiogenesis. CD105 is a major homodimeric glycoprotein of vascular endothelium involved in cell adhesion through integrin/RGD binding and the regulation of angiogenesis. Also acts as TGF-beta coreceptor and is involved in the TGF-beta/BMP signaling cascade. CD105 is also required for GDF2/BMP9 signaling through SMAD1 in endothelial cells.

**Application Notes:** MJ7/18 can be used for FC, WB, IP and IHC (Baluk P, et al. 2003. Am. J. Pathol. 163:1801).

**Antibody First Published in:** Ge AZ et al. Cloning and expression of a cDNA encoding mouse endoglin, an endothelial cell TGF-beta ligand. Gene. 1994 Jan 28;138(1-2):201-6. [PMID:8125301](#)

**Note on publication:** Describes the use of MJ7/18 to screen a cDNA library derived from a transformed mouse brain endothelial cell line.

## Product Form

**Size:** 200 µg Purified antibody.

**Purification:** Protein A affinity purified

**Supplied In:** PBS with 0.02% Proclin 300.

**Storage Recommendation:** Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

**Concentration:** 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic

procedures for humans or animals.