

Anti-CD105 [MJ7/18] Standard Size Ab00623-2.3

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

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, Fc Silent™, 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.