

## Mouse CD105 Monoclonal Antibody | anti-CD105 antibody

Mouse Monoclonal [clone 8A1] (IgG2b) to Human CD105

| CATALOG # | HOST  | REACTIVITY                     | APPLICATIONS                                           |
|-----------|-------|--------------------------------|--------------------------------------------------------|
| AAA52535  | Mouse | Dog, Human, Monkey, Mouse, Rat | Western Blot, Immunofluorescence, Immunohistochemistry |

### PRODUCT SYNONYMS

CD105; Monoclonal Antibody; Mouse Monoclonal [clone 8A1] (IgG2b) to Human CD105; Anti-CD105 Antibody (clone 8A1) IHC-plus; ENG; CD105 antigen; END; HHT1; ORW; ORW1; Osler-Rendu-Weber syndrome 1; Endoglin; Human CD105; anti-CD105 antibody

### PRODUCT SPECIFICATIONS

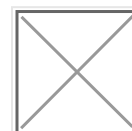
|                                                 |                                                                                                                           |
|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Mouse                                                                                                                     |
| Reactivity                                      | Dog, Human, Monkey, Mouse, Rat                                                                                            |
| Clonality                                       | Monoclonal                                                                                                                |
| Isotype                                         | IgG2b                                                                                                                     |
| Clone Number                                    | 8A1                                                                                                                       |
| Specificity                                     | Human CD105                                                                                                               |
| Purity/Purification                             | Protein A/G Purified                                                                                                      |
| Form/Format                                     | PBS, pH 7.3, 1% BSA, 50% glycerol, 0.02% sodium azide                                                                     |
| Concentration                                   | 1 mg/ml (varies by lot)                                                                                                   |
| Sequence Length                                 | 625                                                                                                                       |
| Applicable Applications for anti-CD105 antibody | WB (Western Blot), IF (Immunofluorescence), IHC (Immunohistochemistry)                                                    |
| Target Species                                  | Human                                                                                                                     |
| Immunogen Description                           | Full length human recombinant protein of human ENG(NP_000109) produced in HEK293T cell.                                   |
| Immunogen Type                                  | Recombinant protein                                                                                                       |
| Immunogen                                       | CD105 antibody was raised against full length human recombinant protein of human ENG(NP_000109) produced in HEK293T cell. |
| Preparation and Storage                         | Store at -20 degree C. Minimize freezing and thawing.                                                                     |

### IMAGES



#### WB (Western Blot)

HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY ENG (Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ENG.



#### WB (Western Blot)

Western blot of extracts (35 ug) from 9 different cell lines by using anti-ENG monoclonal antibody (HepG2: human; HeLa: human; SVT2: mouse; A549: human; COS7: monkey; Jurkat: human; MDCK: canine; PC12: rat; MCF7: human).

**IF (Immunofluorescence)**

Immunofluorescent staining of HeLa cells using anti-ENG mouse monoclonal antibody.

**IHC (Immunohistochemistry)**

Anti-CD105 antibody IHC staining of human spleen. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody concentration 10 ug/ml.

**ADDITIONAL INFORMATION****Related Product Information for anti-CD105 antibody**

Endoglin is a homodimeric transmembrane glycoprotein highly expressed by endothelial cells. It is a component of the transforming growth factor beta receptor complex as it binds TGFB1 and TGFB3 with high affinity. Endoglin has been shown to be a useful marker to identify tumor angiogenesis. Mutations in the endoglin gene produce hereditary hemorrhagic telangiectasia.

**NCBI AND UNIPROT INFORMATION**

|                                  |                                |
|----------------------------------|--------------------------------|
| NCBI GI #                        | 4557555                        |
| NCBI GeneID                      | 2022                           |
| NCBI Accession #                 | NP_000109.1                    |
| NCBI GenBank Nucleotide #        | NM_000118.3                    |
| UniProt Accession #              | P17813; Q14248; Q14926; Q5T9C0 |
| Molecular Weight                 | 67,542 Da                      |
| NCBI Official Full Name          | endoglin isoform 2             |
| NCBI Official Synonym Full Names | endoglin                       |
| NCBI Official Symbol             | ENG                            |
| NCBI Official Synonym Symbols    | END; HHT1; ORW1                |
| NCBI Protein Information         | endoglin; CD105 antigen        |
| UniProt Protein Name             | Endoglin                       |
| UniProt Gene Name                | <b>ENG</b>                     |
| UniProt Synonym Gene Names       | END                            |
| UniProt Entry Name               | EGLN_HUMAN                     |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cd105-antibody-clone-8a1-western-blot-immunofluorescence-immunohistochemistry-elisa/52535>