

## Product datasheet for **UM500111CF**

### CD105 (ENG) Mouse Monoclonal Antibody [Clone ID: UMAB290]

#### Product data:

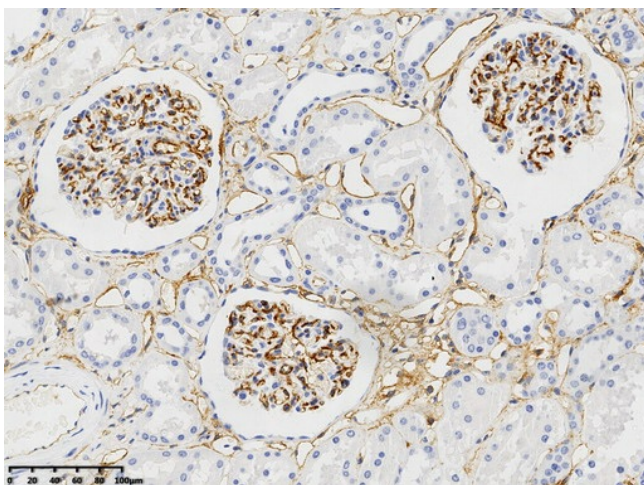
Product Type:	Primary Antibodies
Clone Name:	UMAB290
Applications:	IHC, WB
Recommended Dilution:	WB 1:1000, IHC 1:100
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human ENG(NP_000109) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Predicted Protein Size:	67.78 kDa
Gene Name:	endoglin
Database Link:	<a href="#">NP_000109</a> <a href="#">Entrez Gene 2022 Human P17813</a>
Background:	This gene encodes a homodimeric transmembrane protein which is a major glycoprotein of the vascular endothelium. This protein is a component of the transforming growth factor beta receptor complex and it binds TGFB1 and TGFB3 with high affinity. Mutations in this gene cause hereditary hemorrhagic telangiectasia, also known as Osler-Rendu-Weber syndrome 1, an autosomal dominant multisystemic vascular dysplasia. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2008].


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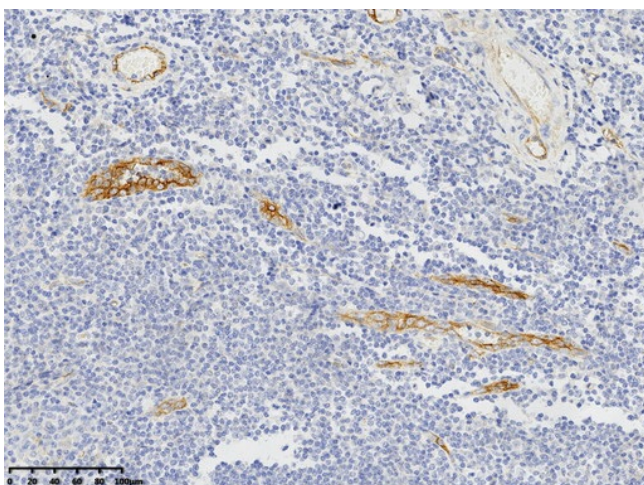
**Synonyms:** END; HHT1; ORW1

**Protein Families:** Druggable Genome, ES Cell Differentiation/IPS, Transmembrane

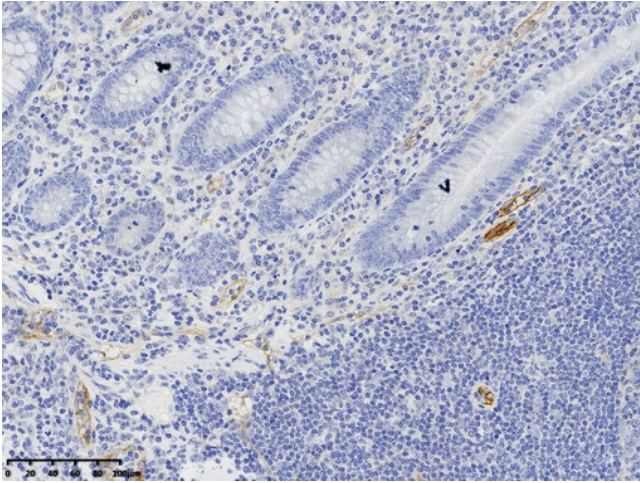
**Product images:**



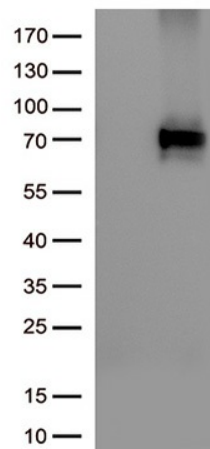
Immunohistochemical staining of paraffin-embedded Human Kidney tissue within the normal limits using anti-CD105 (ENG) mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.0) at 120°C for 3 min, [UM500111]) (1:3000)



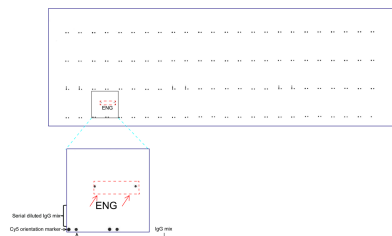
Immunohistochemical staining of paraffin-embedded Human tonsil within the normal limits using anti-CD105 (ENG) mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.0) at 120°C for 3 min, [UM500111]) (1:3000)



Immunohistochemical staining of paraffin-embedded Human appendix tissue within the normal limits using anti-CD105 (ENG) mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.0) at 120°C for 3 min, [UM500111]) (1:3000)



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY CD105 (ENG) (Cat# [RC221699], 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-CD105(ENG). (1:1000)



OriGene overexpression protein microarray chip was immunostained with UltraMAB anti-CD105 (ENG) mouse monoclonal antibody ([UM500111]). The positive reactive proteins are highlighted with two red arrows in the enlarged subarray. All the positive controls spotted in this subarray are also labeled for clarification. (1:100)