

# Human Endoglin/CD105 Protein

HA210069



<b>Product name:</b>	Human Endoglin/CD105 Protein
<b>Species reactivity:</b>	Human
<b>Protein construction description:</b>	Recombinant Human Endoglin/CD105 Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Glu26-Gly586.
<b>Background:</b>	Endoglin (CD105) is a 90 kDa type I transmembrane glycoprotein of the zona pellucida (ZP) family of proteins. Endoglin is a vascular endothelium glycoprotein that plays an important role in the regulation of angiogenesis. Required for normal structure and integrity of adult vasculature (PubMed:7894484). Regulates the migration of vascular endothelial cells. Required for normal extraembryonic angiogenesis and for embryonic heart development. May regulate endothelial cell shape changes in response to blood flow, which drive vascular remodeling and establishment of normal vascular morphology during angiogenesis.
<b>Purity:</b>	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC
<b>Endotoxin:</b>	Less than 1EU per µg by the LAL method.
<b>Source:</b>	HEK293
<b>Accession:</b>	P17813-1
<b>Predicted molecular mass:</b>	The protein has a predicted MW of 63.7 kDa. Due to glycosylation, the protein migrates to 70-82 kDa based on Tris-Bis PAGE result
<b>Formulation:</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution:</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage:</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3-6 months after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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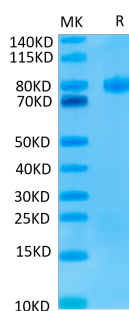
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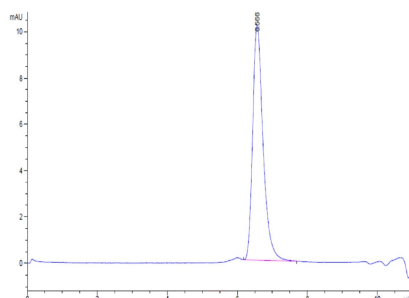
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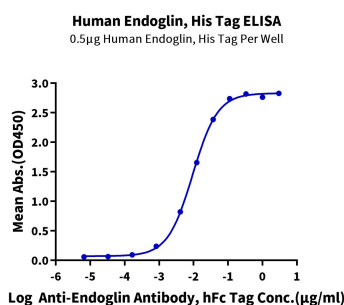
Applications: WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation



**Fig1:** Human Endoglin on Tris-Bis PAGE under reduced conditions. The purity is greater than 95%.



**Fig2:** The purity of Human Endoglin is greater than 95% as determined by SEC-HPLC.



**Fig3:** Immobilized Human Endoglin, His Tag at 5μg/ml (100μl/well) on the plate. Dose response curve for Anti-Endoglin Antibody, hFc Tag with the EC<sub>50</sub> of 9.4ng/ml determined by ELISA.

**Note:** All products are “FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE”.

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