**Endoglin/CD105 Polyclonal ANTIBODY**

**Catalog Number:** 10862-1-AP

### Basic Information
- **Catalog Number:** 10862-1-AP
- **Size:** 38 μg/150 μl
- **Source:** Rabbit
- **Isotype:** IgG
- **Purification Method:** Antigen affinity purification
- **Immunogen Catalog Number:** AG1287
- **GenBank Accession Number:** BC014271
- **Gene ID (NCBI):** 2022
- **Full Name:** endoglin
- **Calculated MW:** 71 kDa
- **Observed MW:** 75-90 kDa, 170-180 kDa

### Recommended Dilutions:
- **WB:** 1:500-1:1000
- **IP:** 0.5-4.0 μg for IP and 1:200-1:1000 for WB
- **IHC:** 1:1000-1:4000

### Applications
- **Tested Applications:** IHC, IP, WB, ELISA
- **Cited Applications:** IF, IHC, WB
- **Species Specificity:** human, mouse, rat
- **Cited Species:** Bovine, human

**Note:** IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

### Positive Controls:
- **WB:** human placenta tissue;
- **IP:** mouse lung tissue;
- **IHC:** human breast cancer tissue; human placenta tissue

### Storage
- **Storage:** Store at -20°C. Stable for one year after shipment.
- **Storage Buffer:** PBS with 0.1% sodium azide and 50% glycerol pH 7.3.
- **Aliquoting:** Unnecessary for -20°C storage

### Background Information
Endoglin (ENG, CD105) is a homodimeric cell membrane glycoprotein of 180 kDa, composed of disulphide-linked subunits of 90/95 kDa. Endoglin is a proliferation-associated and hypoxia-inducible protein mainly expressed on vascular endothelial cells. It acts as an accessory receptor for transforming growth factor beta (TGF-β) and is involved in vascular development and remodelling. The important role of Endoglin in angiogenesis and in tumor progression makes it an ideal target for antiangiogenic therapy and a good marker for tumor prognosis. (PMID: 1326540; 14528280; 21737653; 12773481)

### Notable Publications
<table>
<thead>
<tr>
<th>Author</th>
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<tbody>
<tr>
<td>Xin-Xin Zhao</td>
<td>30400778</td>
<td>J Exp Zool B Mol Dev Evol</td>
<td>IF</td>
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<td>Kakigano A A</td>
<td>23611482</td>
<td>Placenta</td>
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<td>Graham N N</td>
<td>22401677</td>
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### For technical support and original validation data for this product please contact:
- **T:** 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1 (312) 455-8498 (outside USA)
- **E:** proteintechn@ptglab.com
- **W:** ptglab.com

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Various lysates were subjected to SDS PAGE followed by western blot with 10862-1-AP (Endoglin/CD105 antibody) at a dilution of 1:500 incubated at room temperature for 1.5 hours.

Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 10862-1-AP (Endoglin/CD105 antibody) at a dilution of 1:4000 (under 10x lens) heat mediated antigen retrieved with Tris-EDTA buffer (pH 9).