CD105 Polyclonal Antibody

catalog number: **D-AB-10448L**

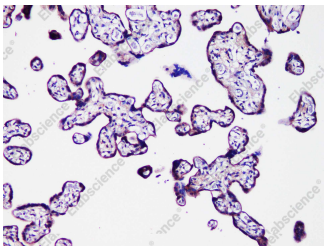
Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description

Reactivity	Human
Immunogen	Recombinant Mouse CD105 protein expressed by E.coli
Host	Rabbit
Isotype	Rabbit IgG
Purification	Antigen Affinity Purification
Buffer	PBS with 0.05% Proclin300, 1% protective protein and 50% glycerol, pH7.4

Applications	Recommended Dilution
IHC	1:1000-1:2000

Data



Immunohistochemistry of paraffin-embedded Human placenta using CD105 Polyclonal Antibody at dilution of 1:1000.

Preparation & Storage

Storage	Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.
Shipping	The product is shipped with ice pack, upon receipt, store it immediately at the temperature recommended.

Background

Endoglin (CD105) is a 90 kDa type I transmembrane glycoprotein of the zona pellucida (ZP) family of proteins. Endoglin and betaglycan/T beta RIII are type III receptors for TGF beta superfamily ligands,sharing 71% aa identity in the transmembrane (TM) and cytoplasmic domains. Endoglin is highly expressed on proliferating vascular endothelial cells,chondrocytes,and syncytiotrophoblasts of term placenta,with lower amounts on hematopoietic, mesenchymal and neural crest stem cells,activated monocytes,and lymphoid and myeloid leukemic cells. Human endoglin cDNA encodes 658 amino acids (aa) including a 25 aa signal sequence,a 561 aa extracellular domain (ECD) with an orphan domain and a two-part ZP domain,a TM domain and a 47 aa cytoplasmic domain. An isoform with a 14 aa cytoplasmic domain (S-endoglin) can oppose effects of long (l) endoglin. The human endoglin ECD shares 65-72% aa identity with mouse,rat,bovine,porcine and canine endoglin. Endoglin homodimers interact with TGF-beta 1 and TGF-beta 3 (but not TGF-beta 2),but only after binding T beta RII. Similarly,they interact with Activin A and BMP-7 via activin type IIA or B receptors,and with BMP-2 via BMPR-IA/AIK-3 or BMPR-IB/AIK-6. BMP-9,however,is reported to bind endoglin directly. Endoglin modifies ligand-induced signaling in multiple ways. For example, expression of endoglin can inhibit TGF-beta 1 signals but enhance BMP-7 signals in the same myoblast cell line

Toll-free: 1-888-852-8623 Tel: 1-832-243-6086 Fax: 1-832-243-6017
Web: www.elabscience.com Email: techsupport@elabscience.com