



## RayBiotech, Inc.

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### Certificate of Analysis and Data Sheet

## Rabbit anti- Endoglin antibody

**Catalog No:**  
130-10018

**Isotype:**  
Rabbit Ig G

**Speceis:**  
Human

**Accession No:**  
P17813

### Description

Endoglin, also known as CD105, is a type I membrane glycoprotein located on cell surfaces and is part of the TGF beta receptor complex. It is involved in the binding of TGF-beta1, TGF-beta3, activin-A, BMP-2, and BMP-7. Beside TGF-beta signaling, endoglin has other functions, such as affecting cell morphology and migration. Endoglin has a role in the development of the cardiovascular system and in vascular remodeling. Its expression is regulated during heart development.

### Applications

#### Summary of antibody applications and working conditions

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA	*			1:160000 (at least detecting 6.25ng/ml)
Western Blotting			#	
Enzyme Immunoassay(EIA)			#	
Immunohistology - paraffin			#	
Immunohistology - resin			#	
Immunoprecipitation			#	
Flow Cytometry			#	
Neutralization			#	

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application

**The products are furnished for LABORATORY RESEARCH USE ONLY.  
Not for diagnostic or therapeutic use.**



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### **Preparation**

Immunogen was synthetic peptide derived from the near N-terminus of human Endoglin. This antibody was produced from a rabbit immunized with the immunogen. The IgG fraction was purified from rabbit serum by ammonium sulphate precipitation, and followed by Protein A/G affinity chromatography.

### **Binding Activity**

The antibody can specifically bind to its immunogen, and did not show any cross reactivity with unrelated antigens in ELISA. The specificity for binding to recombinant protein, cellular protein and native antigen is not defined. Cross reactivity with mouse and rat Endoglin was not tested yet.

### **Reconstitution**

Supplied as lyophilized and purified antibody originally containing PBS, without **Preservative Stabilizers**, liking Sodium Azide. *It final concentration is indicated in shipping vial.*

The antibody is stable for at least years from the data of receipt when stored at  $-20^{\circ}\text{C}$  to  $-70^{\circ}\text{C}$ . Reconstituted antibody (suggesting with sterile PBS) can also be aliquotted and stored frozen at  $-20^{\circ}\text{C}$  to  $-70^{\circ}\text{C}$  in a manual defrost freezer for months without detectable loss activity. Upon reconstitution, the antibody can also be stored over months at  $4^{\circ}\text{C}$ . **Please avoid freeze-thaw cycles.**

### **Storage**

Store at  $-20^{\circ}\text{C}$ , if not intended for use within a month, keep it at  $4^{\circ}\text{C}$  and **minimize freezing and thawing when use.**

### **Related products**

1. Human Endoglin ELISA Kit (Cat# ELH-Endoglin-001 )
2. Rabbit Anti-Endoglin antibody-C-terminus(Cat# 130-10021)
3. Recombinant Human Endoglin (Cat# 228-10387)

### **Reference**

ten Dijke P, Goumans MJ, Pardali E. Endoglin in angiogenesis and vascular diseases. *Angiogenesis*. 2008;11(1):79-89.

Dallas NA, Samuel S, Xia L, Fan F, Gray MJ, Lim SJ, Ellis LM. Endoglin (CD105): a marker of tumor vasculature and potential target for therapy. *Clin Cancer Res*. 2008 Apr 1;14(7):1931-7.

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