



## RayBiotech, Inc.

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### Certificate of Analysis and Data Sheet

## Mouse Anti-Human CD105 With HRP-conjugated Secondary Antibody

**Catalog No.**  
DS-MB-00244

**Target Species**  
Human

**Isotype**  
IgG1

### **Preparation**

**Synonyms:** END

**Purification:** Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

**Immunogen:** Partially purified cell membrane antigens from fresh leukaemia cells.

**Fusion Partners:** Spleen cells from immunised BALB/c mice were fused with cells of the mouse P3/NS1/1-Ag4-1 myeloma cell line.

### **Formulation**

**Product Type:** Monoclonal Antibody

**Product Form:** Purified IgG - liquid

**Buffer Solution:** Phosphate buffered saline

**Preservative Stabilizers:** 0.09% Sodium Azide (NaN<sub>3</sub>)

**Approx. Protein Concentrations:** IgG concentration 1.0 mg/ml

### **Specificity**

DS-MB-00244 recognizes the human CD105 cell surface antigen, a glycoprotein homodimer of 95kD subunits.

CD105 is also known as endoglin, and is expressed by endothelial cells, activated monocytes and some leukaemia cells.

**Species Cross Reactivity** Reacts with: Horse

**N.B.** Antibody reactivity and working conditions may vary between species.

### **Storage**

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

**Shelf Life:** 18 months from date of dispatch.

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



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### Applications

**Table Summary of antibody applications and working conditions**

<b>Options</b> <b>Functions</b>	<b>YES</b>	<b>NO</b>	<b>Not determined</b>	<b>Recommended Work dilution or concentration</b>
Flow Cytometry (1)	•			1/50
Immunohistology - Frozen	•			
Immunohistology - Paraffin		•		
Immunoprecipitation	•			
ELISA			•	
Western Blotting	•			

**Note: Other applications are not tested yet. Optimal dilutions should be determined.**

**(1) Use 10ul of the suggested working dilution to label  $10^6$  cells in 100ul.**

### Secondary Antibody Applications

<b>Options</b> <b>Functions</b>	<b>YES</b>	<b>NO</b>	<b>Not determined</b>	<b>Recommended Work dilution or concentration</b>
Immunoassay (ELISA, Western blot)	•			1:5000-1:10000

### Reference

1. Haruta, Y. & Seon, B.K. (1986) Distinct human leukemia-associated cell surface glycoprotein GP160 defined by monoclonal antibody SN6. *Proc. Natl. Acad. Sci. USA* 83: 7898-7902.
2. Jin, H.J. *et al.* (2010) GD2 expression is closely associated with neuronal differentiation of human umbilical cord blood-derived mesenchymal stem cells. *Cell Mol Life Sci.* 67: 1845-1858.
3. Nagano, M. *et al.* (2007) Identification of functional endothelial progenitor cells suitable for the treatment of ischemic tissue using human umbilical cord blood. *Blood.* 110: 151-160.
4. Braun, J. *et al.* (2010) Evaluation of the osteogenic and chondrogenic differentiation capacities of equine adipose tissue-derived mesenchymal stem cells. *Am. J. Vet. Res.* 71:1228-1236.
5. Diaz-Romero, J. *et al.* (2008) Immunophenotypic changes of human articular chondrocytes during monolayer culture reflect bona fide dedifferentiation rather than amplification of progenitor cells. *J Cell Physiol.* 214: 75-83.

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