



## RayBiotech, Inc.

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# Certificate of Analysis and Data Sheet Mouse Anti-Human CD105:FITC

**Catalog No.**  
DS-MB-00245

**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 conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid

**Buffer Solution:** Phosphate buffered saline

**Preservative Stabilizers:** 0.09% Sodium Azide (NaN<sub>3</sub>), 1% Bovine Serum Albumin

**Approx. Protein Concentrations:** IgG concentration 0.1 mg/ml

### **Specificity**

DS-MB-00245 recognises 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.

Storage in frost free freezers is not recommended. This product is photosensitive and should be protected from light.

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)	•			Neat
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.**

### 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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