



## RayBiotech, Inc.

3607 Parkway Lane suite 200  
Norcross, GA 30092  
Tel: 770-729-2992, 1-888-494-8555  
Fax: 770-206-2393  
Website: [www.raybiotech.com](http://www.raybiotech.com)  
Email: [info@raybiotech.com](mailto:info@raybiotech.com)

# Certificate of Analysis and Data Sheet

## Mouse Anti-Podoplanin

**Catalog No.**  
MD-14-0943

**Host Animal:**  
Mouse

**Description:** MAb to Podoplanin  
Monoclonal Antibody to Human Podoplanin

**Specificity:** Recognizes Human Podoplanin (gp36), a 36kDa type I cell membrane-associated glycoprotein, with a broad spectrum of distribution, being strongly expressed on the lymphatic endothelium found in lung, placenta and skeletal muscle and to a lesser extent in brain, kidney and liver. Podoplanin is absent on blood endothelium and therefore this antibody is able to distinguish between lymphatic vessels and blood vasculature.

**Isotype:** IgG1

**Source:** Cell culture

**Immunogen:** ORF Human Podoplanin ectodomain expressed in E. coli

**Format:** Purified, Liquid

**Purification:** Protein G chromatography

**Concentration:** 1mg/ml

**Affinity Constant:** Not determined

**Buffer:** PBS

**Preservative:** 0.09% Sodium azide

**Storage:** Short term store at 2–8°C.  
Long term store at -20°C. Avoid multiple freeze/thaw cycles.

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



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**Applications:** Suitable for use in Immunohistochemistry, frozen and paraffin sections (0.75–2ug/ml). This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose. Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.

**References:** The references listed below are for research purposes only.

1. Matsui, K., et al., (2003), “Lymphatic microvessels in the rat remnant kidney model of renal fibrosis: Aminopeptidase P and Podoplanin are discriminatory markers for endothelial cells of blood and lymphatic vessels”, J. Am. Soc. Nephrol., 14: 1981–1989.
2. Dadras, S. S., et al., (2003), “Tumor Lymphangiogenesis: A novel prognostic indicator for cutaneous melanoma methastasis and survival”, Am. J. Pathol., 162(6), 1951–1960.
3. Zimmer, G., et al., (1999), “Cloning and characterization of gp36, a human mucin-type glycoprotein preferentially expressed in vascular endothelium”, Biochem. J., 341: 277–284.
4. Schacht, V., et al., (2003), “T1a\podoplanin deficiency disrupts normal lymphatic vasculature formation and causes lymphedema”, EMBO J., 22(14), 3546–3556.
5. Kato, Y., et al., (2003), “Molecular Identification of Aggrus/T1alpha as a Platelet Aggregation-inducing Factor Expressed in Colorectal Tumors”, J. Biol. Chem., 278(51): 51599–51605.

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