



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Mouse Anti Human Podoplanin With HRP-conjugated Secondary Antibody

Catalog No.

DS-MB-02139

Target Species

Human

Isotype

IgG2a

Synonyms

Aggrus

Specificity

DS-MB-02139 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 DS-MB-02139 is readily able to distinguish between lymphatic vessels and blood vasculature. Although the specific function of this protein is undetermined, Podoplanin is reported to be a reliable indicator of tumour lymphangiogenesis.

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

Immunohistology: 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.

Histology Positive Control Tissue: Normal lung

Formulation

Product Type: Monoclonal Antibody
Product Form: Purified IgG - liquid
Concentration: IgG concentration 1mg/ml
Preservative Stabilizers: 0.09% Sodium Azide
Buffer: Phosphate Buffered Saline

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



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Storage

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

Storage in frost-free freezers is not recommended.

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 dispatch

Applications

Table Summary of antibody applications and working conditions

Options / Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA			.	
Western Blotting			.	
Immunohistology - frozen	.			0.75ug/ml - 2ug/ml
Immunohistology – paraffin	.			
Immunohistology - resin			.	
Immunoprecipitation			.	
Flow Cytometry			.	
Immunofluorescence staining			.	
Neutralization			.	

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

Secondary Antibody Applications

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

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References

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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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