

RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Rat Anti-Mouse CD41

With HRP-conjugated Secondary Antibody

Catalog No.
DS-MB-03836

Target Species
Mouse

Isotype
IgG1

Preparation

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

Formulation

Product Type: Monoclonal Antibody

Product Form: Purified IgG - liquid

Preservatives & Stabilizers: 0.09% Sodium Azide,

Buffer Solution: Phosphate buffered saline

Approx. Protein Concentrations: IgG concentration 1.0 mg/ml

Specificity

DS-MB-03836 recognizes the mouse integrin alpha IIb subunit CD41. CD41 is expressed on platelets and megakaryocytes and forms a heterodimer with CD61. CD41/CD61 is important for platelet adhesion and aggregation. This antibody has been reported to inhibit PMA induced aggregation in vitro and to induce hypothermia in vivo.

Storage

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

This product should be stored undiluted.

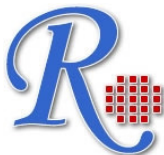
Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life: 18 months from date of dispatch.

Secondary Antibody Applications

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
Immunoassay (ELISA, Western blot)	.			1:5,000-1:10,000

**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

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA			•	
Flow Cytometry	•			1:50 – 1:100
Immunohistology - Frozen	•			
Immunohistology - Paraffin			•	
Immunohistology - Resin			•	
Immunoprecipitation	•			
Western Blotting			•	

Note: Optimal dilutions should be determined by each laboratory for each application.

References

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2. Winter, O. et al. (2010) Megakaryocytes constitute a functional component of a plasma cell niche in the bone marrow. *Blood*. 116: 1867-75.
3. Tamagawa-Mineoka, R. et al. (2007) The role of platelets in leukocyte recruitment in chronic contact hypersensitivity induced by repeated elicitation. *Am J Pathol*. 170: 2019-29.
4. Takayama, M. et al. (2010) Genetic analysis of hierarchical regulation for Gata1 and NF-E2 p45 gene expression in megakaryopoiesis. *Mol Cell Biol*. 30: 2668-80.
5. Larson, M.K. and Watson, S.P. (2006) Regulation of proplatelet formation and platelet release by integrin alpha IIb beta3. *Blood*. 108: 1509-14.
6. Zanzinger, K. et al. (2009) Regulation of triggering receptor expressed on myeloid cells 1 expression on mouse inflammatory monocytes. *Immunology*. 128: 185-95.
7. Lutskiy, M.I. et al. (2007) WASP localizes to the membrane skeleton of platelets. *Br J Haematol*. 139: 98-105.
8. Sullivan, B.P. et al. (2010) Protective and damaging effects of platelets in acute cholestatic liver injury revealed by depletion and inhibition strategies. *Toxicol Sci*. 115: 286-94.

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