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Certificate of Analysis and Data Sheet

Mouse Anti-Human CD41

With HRP-conjugated Secondary Antibody

Catalog No.	Target Species	Isotype
DS-MB-03054	Human	IgG1

Preparation

Fusion Partners: Spleen cells from immunized BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line.
Immunogen: Human platelet plasma membrane.

Specificity

This antibody recognizes the human CD41 cell surface antigen, a 140kD glycoprotein expressed by platelets and megakaryocytes. CD41 is also known as platelet glycoprotein IIb, and functions as a receptor for fibrinogen, fibronectin and vWF.
It has not been established if clone PM6/248 recognizes free CD41 or CD41 only when complexed with CD61. However, antibody binding is reduced in the presence of EDTA suggesting that the epitope recognized is dependent upon an intact CD41/61 complex.

Formulation

Product Type: Monoclonal Antibody
Product Form: Purified Purified IgG - liquid
Buffer Solution: Phosphate buffered saline
Preservative Stabilizers: 0.09% Sodium Azide

Applications

Options / Functions	YES	NO	Not determined	Recommended Work dilution or concentration
Flow Cytometry	•			
Western Blotting		•		
Elisa			•	

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

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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)	•			1:5000-1:10000

References

1. Hornby, E.J. et al. (1991) Activation of human platelets by exposure to a monoclonal, PM6/248, to glycoprotein IIb-IIIa. Br. J. Haematol. 79: 277-285.
2. Michelson, A.D. et al. (1995) A panel of platelet mAb for the study of haemostasis and thrombosis in baboons.Leucocyte Typing V. Oxford University Press p 1230-1231.
3. Maloney, S.F. ety al. (2010) P2Y12 or P2Y1 inhibitors reduce platelet deposition in a microfluidic model of thrombosis while apyrase lacks efficacy under flow conditions. Integr Biol (Camb). 2: 183-92.
4. Aasted, B. et al. (2007) Reactivity of monoclonal antibodies to human CD antigens with cells from mink. Vet Immunol Immunopathol. 119: 27-37.
5. Massoudy, P. et al. (2001) Evidence for inflammatory responses of the lungs during coronary artery bypass grafting with cardiopulmonary bypass. Chest. 119: 31-6.
6. Kahng, J. et al. (2008) Quantitative comparisons of antibody-binding sites of platelet glycoprotein IIb/IIIa in aplastic anemia and idiopathic thrombocytopenic purpura. Ann Clin Lab Sci. 38: 6-11.
7. Chae, H. et al. (2009) EDTA Inhibits the Binding of Clone 96.2C1, an Anti-CD41a Monoclonal Antibody, to the Platelets and Addition of Heparin and CaCl2 to the Antibody Neutralizes the EDTA-induced Inhibitory Effect Korean J Hematol 44: 42 - 6.
8. Zahler, S. et al. (1999) Acute cardiac inflammatory responses to postischemic reperfusion during cardiopulmonary bypass. Cardiovasc Res. 41: 722-30.
9. Wang, J.S. et al. (2005) Effects of exercise training and deconditioning on platelet aggregation induced by alternating shear stress in men. Arterioscler Thromb Vasc Biol. 25: 454-60.