

D-DIMER MONOCLONAL ANTIBODIES

Abbreviations	D-Dimer mAb D-D mAb
Associated Marker	D-Dimer
Host	Mouse
Grade	Affinity Purified
Specificity	The antibodies detect D-Dimer. The antibodies do not detect Fibrinogen or Plasminogen.

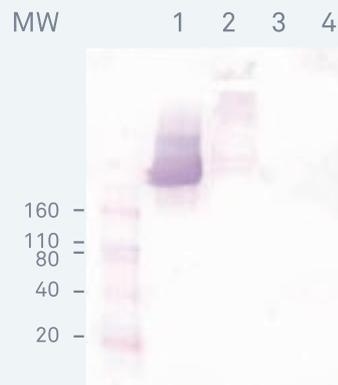
Application	Western blot, ELISA, lateral flow and latex agglutination (3B6 only).
Target Marker	D-Dimer is formed as a by-product of fibrin degradation. The small protein fragment is aptly named, with its structure containing two cross-linked D fragments of the fibrinogen protein. The main role of D-Dimer within medical diagnostics is to rule out thromboembolic disease in patients presenting typical symptoms. ¹
Target Marker - Occurrence	D-Dimer is not usually found in blood plasma. It is formed as a result of thrombin activation, clot formation and subsequent clot lysis. A normal D-Dimer level is below 500µg/L.
Target Marker -Function in Disease	D-Dimer is utilised in the diagnosis of thromboembolic diseases. Deep venous thrombosis and pulmonary embolism can be diagnosed using pulmonary angiography, with accurate results. However this is costly, invasive, and not widely available. ³ D-Dimer levels are nearly always elevated in cases of pulmonary embolism. However, elevated levels can also be from various other causes. Therefore the D-Dimer test is generally used to rule out pulmonary embolism. A normal D-Dimer level below 500µg/L allows the exclusion of pulmonary embolism. ²
Product Specific References	<ol style="list-style-type: none"> 1. Paul D. Stein, Russell D. Hull, Kalpesh C. Patel, Ronald E. Olson, William A. Ghali, Rollin Brant, Rita K. Biel, Vinay Bharadia, Neeraj K. Kalra, D-Dimer for the Exclusion of Acute Venous Thrombosis and Pulmonary Embolism (2004) Ann Intern Med. 140, 589-602. 2. Arnaud Perrier, Sylvie Desmaraes, Catherine Goehring, Phillipe de Moerloose, Alfredo Morabia, Pierre-Francois Unger, Daniel Slosman, Alain Junod, Henri Bounameaux, D-dimer Testing for Suspected Pulmonary Embolism in Outpatients (1997) Am J Respir Crit Care Med, 156, 492-496. 3. Jeffrey S. Ginsberg, Philip S. Wells, Clive Kearon, David Anderson, Mark Crowther, Jeffrey I. Weitz, Janis Bormanis, Patrick Brill-Edwards, Alexander G. Turpie, Betsy MacKinnon, Michael Gent, Jack Hirsh, Sensitivity and Specificity of a Rapid Whole-Blood Assay for D-Dimer in the Diagnosis of Pulmonary Embolism (1998) Annals of Internal Medicine, 129, 1006-1011.

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Characterisation

BBI offer a world class D-Dimer antibody pair, characterised for use in lateral flow, ELISA and western blotting. The antibodies, BM243-1D2 and BM243-3B6 are highly specific for D-Dimer and do not detect Fibrinogen or Plasminogen, as displayed in the western blot.

Lane 1: non-reduced D-Dimer
 Lane 2: non-reduced Human Serum
 Lane 3: non-reduced Fibrinogen
 Lane 4: non-reduced Plasminogen



Use in Research

BM243-1D2 Use in Research:

Dempfle C.E. et al. 2001, Thrombosis and Haemostasis, 85, 671-678
 Hart R. et al. 1994, Blood Coagulation and Fibrinolytics, 5 227-232
 Galvani M. et al. 1996, Thrombosis and Haemostasis 76 (3), 339-343

BM243-3B6 Use in Research:

Dempfle C.E. et al. 2001, Thrombosis and Haemostasis, 85, 671-678
 Bundessen et al. United States Patent, No. 4,758,524., Jul 19. 1998
 Devine D.V. et al. 1988, American Journal of Clinical Pathology, 89:5 663-666

WHY BBI?

- + Be confident in your **results** when you choose BBI's monoclonal antibodies for your next assay
 - Our D-Dimer antibodies have been tested in western blot and ELISA.
- + **Save time and money** by choosing one of our recommended pairs.

ORDERING DETAILS – USE THE FOLLOWING CODES WHEN ORDERING

Product	Code	Description
D-Dimer mAb	BM243-1D2	WESTERN BLOT Sandwich ELISA: Detection Ab paired with BM243-3B6 as Capture Lateral Flow: Capture Ab paired with BM243-3B6 as Detection
D-Dimer mAb	BM243-3B6	WESTERN BLOT Sandwich ELISA: Capture Ab paired with BM243-1D2 as Detection Lateral Flow: Detection Ab paired with BM243-1D2 as Capture Latex Agglutination

Related Products

P202-4	Standard grade D-Dimer antigen (> 1% pure)
P202-3	Pure D-Dimer antigen (> 90% pure)
SG324	Individual clinical patient samples with elevated levels of D-Dimer

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