



## RayBiotech, Inc.

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### Certificate of Analysis and Data Sheet

## Mouse Anti-Human D-Dimer

With HRP-Conjugated Secondary Antibody

Catalog No.	Target Species	Isotype
DS-MB-01145	Human	IgG2a

### Preparation

**Preparation:** Purified IgG prepared by affinity chromatography on Protein A

**Immunogen:** Homogenized fibrin clot

**Fusion Partners:** Spleen cells from immunized Balb/c mice were fused with cells of the Sp2/0 myeloma cell line

### Specificity

DS-MB-01145 is specific for human D-dimer and high molecular weight fibrin degradation products, but does not cross-react with fibrinogen (D-monomer).

D-dimers are the principle degradation products of cross-linked fibrin, released into the bloodstream following the digestion of fibrin clots (thrombus) by the enzyme plasmin, and thus measurement of the level of D-dimer in plasma, can be used as an indication of thrombotic disorders. Conditions in which levels of D-dimer are elevated include deep vein thrombosis (DVT), venous thromboembolism (VTE), cardiovascular disease and disseminated intravascular coagulation (DIC), a possible acute condition arising from surgical operations, septic shock and liver disease.

### Formulation

**Product Type:** Monoclonal Antibody

**Product Form:** Purified IgG - liquid

**Buffer Solution:** Phosphate buffered saline pH7.4

**Preservative Stabilizers:** 0.09% Sodium Azide ( $\text{NaN}_3$ )

**Approx. Protein Concentrations:** IgG concentration 1.0 mg/ml

### Storage

Store at  $+4^\circ\text{C}$  or at  $-20^\circ\text{C}$  if preferred.

This product should be stored undiluted. Storage in frost-free freezers is not recommended. 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.

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



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### Reference

1. Rowbotham, B.J. et al. (1987) Measurement of crosslinked fibrin derivatives--use in the diagnosis of venous thrombosis. *Thromb. Haemost.* 57: 59-61.
2. Kruskal, J.B. et al. (1992) Elevated fibrin-related and fibrinogen-related antigens in patients with liver disease. *Hepatology*. 16: 920-923.

### Applications

<b>Options</b> <b>Functions</b>	<b>YES</b>	<b>NO</b>	<b>Not determined</b>	<b>Recommended Work dilution or concentration</b>
Flow Cytometry			•	
Western Blotting	•			
Elisa (1)	•			

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

(1) This product may be used in an indirect ELISA or as the capture antibody in sandwich ELISA for the detection of D-dimer in human plasma. Plasma samples must be diluted with 10mM Tris-HCl buffer, pH7.5, containing 1M NaCl (final concentration in sample > 0.5M) and 0.1% Tween 20.

### Secondary Antibody Applications

<b>Options</b> <b>Functions</b>	<b>YES</b>	<b>NO</b>	<b>Not determined</b>	<b>Recommended Work dilution or concentration</b>
Immunoassay (ELISA, Western blot)	•			1:2000-1:5000

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