



# DataSheet

**CATALOGUE #:** 4D30

**PRODUCT NAME:** Monoclonal mouse anti-D-dimer

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**MAbs *in vitro*:** DD3cc, DD6cc, DD41cc, DD44cc, DD46cc, DD189cc, DD255cc

**MAbs *in vivo*:** DD1, DD2, DD4, DD5, DD22, DD93

Hybridoma clones have been derived from hybridization of Sp2/0 myeloma cells with spleen cells of Balb/c mice immunized with D-dimer, high molecular weight fibrin degradation products or synthetic peptides covering the cross-linked region of D-dimer gamma-chain.

**Specificity:** All MAbs recognize D-dimer and high molecular weight fibrin degradation products. DD93 recognizes a cross-linked region of D-dimer. DD1, DD2, DD3cc, DD22, DD41cc, DD44cc, DD46cc, DD93, DD189cc and DD255cc do not cross-react with fibrinogen. DD4, DD5 and DD6cc show cross-reaction with fibrinogen.

**MAb isotypes:** **IgG1** for DD93, DD189cc, DD255cc  
**IgG2a** for DD1, DD6cc, DD22, DD41cc, DD46cc  
**IgG2b** for DD2, DD3cc, DD4, DD5, DD44cc

**Applications:** Immunoassays for the quantitative determination of D-dimer and high molecular weight fibrin degradation products

All antibodies recognize D-dimer in ELISA. All MAbs recognize D-dimer in Western blotting under non-reducing conditions. DD22, DD41cc, DD44cc, DD46cc and DD189cc interact with beta-chain of D-dimer in Western blotting under reducing conditions. DD93 and DD255cc interact with gamma-chain of D-dimer in Western blotting under reducing conditions.

Recommended pairs to be used in a sandwich immunoassay for D-dimer detection in human plasma:

| Pair (capture-detection) | Remarks   |
|--------------------------|---|
| DD189cc – DD255cc        | Equal specificity for D-dimer and high MW fibrin degradation products               |
| DD2 – DD41cc             | Slightly more specific for high MW fibrin degradation products                      |
| DD2 – DD4*               | Approximately equal specificity for D-dimer and high MW fibrin degradation products |

\* Due to the cross-reactivity of DD4 with fibrinogen, we strongly recommend to use it as the detection antibody. In a sandwich immunoassay, plasma must be diluted at least two-fold with 10 mM Tris-HCl, pH 7.5, 1 M NaCl, 0.1 % Tween 20 in order to avoid nonspecific binding. Each step in the assay should be followed by an incubation and wash: coating with the capture MAb, addition of the sample and addition of the (conjugated) detection MAb.

**Purification:** Protein A chromatography

**Presentation:** PBS, pH 7.4, 0.09 % sodium azide (NaN<sub>3</sub>)

**Storage:** +4 °C (+2 ... +8 °C allowed)

**Material safety note:** This product is sold **for research use only**. Standard Laboratory Practices should be followed when handling this material.

Product contains sodium azide as a preservative. Although the amount of sodium azide is very small appropriate care must be taken when handling this product.

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