



DataSheet

CATALOGUE #: 4D30

PRODUCT NAME: Monoclonal mouse anti-D-dimer

MAbs: DD1, DD2, DD3, DD4, DD5, DD6, DD22, DD41, DD44, DD46, DD93, DD189, DD255
Hybridoma clones have been derived from hybridization of Sp2/0 myeloma cells with spleen cells of Balb/c mice immunized with homogenized fibrin clot, D-dimer or high molecular weight fibrin degradation products.

Specificity: All MAbs recognize D-dimer and high molecular weight fibrin degradation products.
MAb DD93 recognizes a cross-linked region of D-dimer.
MAbs DD1, DD2, DD3, DD22, DD41, DD44, DD46, DD93, DD189 and DD255 do not cross-react with fibrinogen.
MAbs DD4, DD5 and DD6 show cross-reaction with fibrinogen.

MAb isotypes: **IgG1** for MAbs DD93, DD189, DD255
IgG2a for MAbs DD1, DD6, DD22, DD41, DD46
IgG2b for MAbs DD2, DD3, DD4, DD5, DD44

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. MAbs DD22, DD41, DD44, DD46 and DD189 interact with beta-chain of D-dimer in Western blotting under reducing conditions. MAbs DD93 and DD255 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 (capture-detection):

Pair (capture-detection)	Remarks
DD189 – DD255	Equal specificity for D-dimer and high MW fibrin degradation products
DD2 – DD41	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: Chromatography on protein A Sepharose

Presentation: PBS, pH 7.4, 0.09 % sodium azide (NaN₃)

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.

HyTest Ltd.

Intelligent 1, 6th floor, Joukahaisenkatu 6
FI-20520 Turku FINLAND
www.hytest.fi | hytest@hytest.fi