

**MONOCLONAL ANTIBODY CD41**

Cat. No.	Form	Quantity	Presentation
0145	Purified	0.2 mg	Freeze-dried
0649	FITC	100 tests	Liquid 2 ml
0718	Biotin	0.2 mg	Freeze-dried
1416	Phycoerythrin	100 tests	Liquid 2 ml

**Clone** P2

**Isotype** IgG1  $\kappa$  (mouse)

**Immunogen** Human platelets

**Hybridoma** SP2/O-Ag.14 myeloma X Balb/c spleen cells

**Specificity** The molecular weight of the recognized antigen is 135-95 kDa.  
 Reacts with gpIIb in the intact complex with gpIIIa, but not with IIb or IIIa, separately. Inhibits platelet aggregation induced by thrombin, collagen and ADP.

**Applications** Studies have shown that anti-CD41 can aid in the:  
 Identification of GpIIb-IIIa deficiency in Glanzmann thrombastheny.  
 Identification of GpIIb-IIIa on human platelet membrane

**Buffer** Freeze-dried forms: 1 mg/ml bovine serum albumin in phosphate buffered saline.  
 Liquid forms: 2 mg/ml bovine serum albumin in phosphate buffered saline containing 0.1% sodium azide.

**Reconstitution and Storage** The freeze-dried form may be stored at 2-8°C until the expiration date. Reconstitute with 1 ml of distilled water. No preservative has been added. The reconstituted form may be stored at -20°C until the expiration date. Aliquotting is suggested to avoid multiple freeze-thaw cycles. The addition of sodium azide at 0.1% (w/v) is recommended for storage of the reconstituted form for up to one month at 2-8°C.  
 Conjugated forms should not be frozen and should be stored in the dark at 2 - 8°C.

October 10, 1994



**Recommended  
Procedures**

Fluorescent microscopy or flow cytometry:

Liquid form: 20  $\mu$ l/5x10<sup>6</sup> platelets/test

Freeze-dried form: 2  $\mu$ g/5x10<sup>6</sup> platelets /test

Immunohistochemistry:

Suggested form: freeze-dried

Working dilution: 1:50 to 1:100

This antibody is only suitable on frozen sections or cell smears.

**References**

1) McGregor, J.L., Brochier, J., Wild, F., Follea, G., Trzeciak, M.C., James, E., Dechavanne, M., McGregor, L. & Clemetson, K., "Monoclonal antibodies against platelet membrane glycoproteins", 1983, Eur. J. Biochem., **131**, 427-436.

2) Phillips, D.R., "The platelet membrane gp IIb IIIa complex". 1988, Blood, **71**, 831.

3) This antibody was studied at the Human Leucocyte Workshop in Oxford (1986).

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