

Product Data Sheet

**Monoclonal Anti-Human CD41 and conjugates**

|              |  |                        |
|--------------|--|------------------------|
| # CD41UL-100 | Mouse monoclonal Anti-Human CD41, Purified IgG, <b>unlabeled</b> | <b>Size:</b> 100 ug    |
| # CD41F-100  | Mouse monoclonal Anti- Human CD41, <b>FITC</b> conjugate         | <b>Size:</b> 100 tests |
| # CD41P-100  | Mouse monoclonal Anti- Human CD41, <b>R-PE</b> Conjugate         | <b>Size:</b> 100 tests |
| # CD41PC-100 | Mouse monoclonal Anti- Human CD41, <b>R-PE-Cy5</b> Conjugate     | <b>Size:</b> 100 tests |

CD41 McAb recognizes a 120-140KD glycoprotein which is the  $\alpha$  subunit of the CD41/CD61 (GPIIb/IIIa,  $\alpha$ IIb $\beta$ 3) complex called glycoprotein IIb(GPIIb). GPIIb is a calcium-dependent, noncovalently associated heterodimer and contains a heavy chain (GPIIb $\alpha$ ) and a light chain (GPIIb $\beta$ ) linked by a single disulfide bond. The CD41 antigen is restrictedly expressed by platelets and platelet precursors (megakaryocytes). CD41/CD61 complex is the receptor of fibrinogen, fibronectin and von Willebrand factor, and plays a central role in platelet activation and aggregation. The GPIIb/IIIa may be absent or strongly reduced in Glanzmann's thrombasthenia (GT). HIP8 McAb may completely inhibit platelet aggregation and ATP secretion induced by ADP, thrombin and collagen. HIP11 may react with  $\alpha$  and  $\beta$  subunits of GPIIb/IIIa (CD41/CD61) complex.

Synonyms: TGA2B; CD41; CD41B; GP2B; GPIIb; GTA; HPA3

**Ig Isotype:** Mouse IgG1k, HIP8  
**Specificity:** Human and primates (others not tested)

**Form and Storage**

**Cat# CD41UL-100, unlabeled IgG1**

Antibody is supplied in PBS, pH 7.4, and 0.05% azide in either **lyophilized** (100 ug) or **liquid** form (1 mg/ml or see lot sp. concn on the vial). Reconstitute powder in PBS at 100 ug/ml or as desired. Store at -20oC in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw. Controls are typically tested at 0.1-1 ug/ml depending upon the application.

**Cat# CD41F-100-F, FITC-conjugate**

Purified antibody was coupled to FITC at F/P ratio ~4-5:1. The antibody is supplied in PBS, pH 7.4, azide in either **lyophilized** (100 tests per vial) or **liquid** form (100 tests; see lot sp. conc. on the vial). Reconstitute powder in PBS in 0.5 ml or as desired. Store at 4oC in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw.

Suggested conjugate dilutions are 1:50-1:500 for immunofluorescence or as optimized for a given tests.

**Color: Green**  
**Absorption:** 495 nm      **Emission:** 528 nm

**Cat# CD41P-100-PE, R-phycoerythrin (R-PE) conjugate**

Purified Mouse IgG1 was coupled to R-PE and supplied in PBS, pH 7.4, azide in either **lyophilized** (100 tests per vial) or **liquid** form (100 tests; see lot sp. conc on the vial). Reconstitute powder in PBS in 500 ul water or as desired. Store at -4oC in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw.

Suggested conjugate dilutions are 10 ul/test or  $1 \times 10^6$  cell for Flow cytometry or as optimized for a given tests.

**Color: Red**  
**Absorption:** 488 nm      **Emission:** 575 nm

**Cat# CD41PC-100, R-phycoerythrin (R-PE)-Cy5 conjugate**

Purified antibody was coupled to R-PE/Cy5 and supplied in PBS, pH 7.4, azide in either **lyophilized** (100 tests per vial) or **liquid** form (100 tests, see lot sp. conc on the vial). Reconstitute powder in PBS in 500 ul water or as desired. Store at 4oC in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw.

Suggested conjugate dilutions are 10 ul/test or  $1 \times 10^6$  cell for Flow cytometry or as optimized for a given tests.

**Isotype Controls**

|               |   |
|---------------|---|
| 20102-101     | Mouse IgG1 isotype control, purified      |
| 20102-101-1   | Mouse IgG1 isotype control, purified      |
| 20102-101-APC | Mouse IgG1-APC conjugate                  |
| 20102-101-B   | Mouse IgG1-Biotin conjugate (isotype)     |
| 20102-101-F   | Mouse IgG1-FITC conjugate (isotype)       |
| 20102-101-FP  | Mouse IgG1-FITC-PE conjugate (isotype)    |
| 20102-101-HP  | Mouse IgG1-HRP conjugate (isotype)        |
| 20102-101-PC5 | Mouse IgG1-PE-Cy5 conjugate               |
| 20102-101-PE  | Mouse IgG1-PE conjugate (isotype control) |

References: Naik UP (1997) Curr. Opin. Hematol. 4, 317-322; Porter JC (1999) Trends Cell Biol. 8, 390-396; Lincoff AM (1998) Am. J. Cardiol. 82, 36P-42P; Watson SP (2005) J. Thromb. Hematol. 8, 1752.

All products are for In vitro research use only.

CD41      110921A