

Product Data Sheet

Monoclonal Anti-Human CD41 and conjugates

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

CD41 McAb recognizes a 120-140KD glycoprotein which is the α subunit of the CD41/CD61 (GPIIb/IIIa, α IIb β 3) complex called glycoprotein IIb(GPIIb). GPIIb is a calcium-dependent, noncovalently associated heterodimer and contains a heavy chain (GPIIb α) and a light chain (GPIIb β) 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 α and β 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 x 10⁶ 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 x 10⁶ 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