

Product Data Sheet

**Monoclonal Anti-Human CD42b antibody, conjugate controls and conjugates**

# CD42b1-UL	Anti-Human CD42b IgG, Unlabeled	<b>Size:</b> 100 ug
# CD42b1-B	Anti-Human CD42b -Biotin conjugate	<b>Size:</b> 50 tests
# CD42b1-F	Anti-Human CD42b-FITC conjugate	<b>Size:</b> 50 tests
# CD42b1-PE	Anti-Human CD42b -PE conjugate	<b>Size:</b> 50 tests
# CD42b1-APC	Anti-Human CD42b -APC conjugate	<b>Size:</b> 50 tests
# CD42b1-C	Recombinant Human CD42b1a protein control for WB	<b>Size:</b> 100 ul

Glycoprotein Ib (GP Ib) is a platelet surface membrane glycoprotein composed of a heterodimer, an alpha chain and a beta chain, that are linked by disulfide bonds. The Gp Ib functions as a receptor for von Willebrand factor (VWF). The complete receptor complex includes noncovalent association of the alpha and beta subunits with platelet glycoprotein IX and platelet glycoprotein V. The binding of the GP Ib-IX-V complex to VWF facilitates initial platelet adhesion to vascular subendothelium after vascular injury, and also initiates signaling events within the platelet that lead to enhanced platelet activation, thrombosis, and hemostasis. This gene encodes the alpha subunit. Several polymorphisms and mutations have been described in this gene, some of which are the cause of Bernard-Soulier syndromes and platelet-type von Willebrand disease.

**Description**

Highly purified preparation of human CD42b was used as antigen to produce antibodies (IgG1k clone CD42b1). It is supplied as unlabeled, Biotin, FITC, PE, and APC conjugates.

**Cat# CD42b1-C, Western control**

Human CD42b/GP1ba (protein accession #AAH27955.1, 1-626 aa, mol wt ~80 kda) was expressed in E. coli and purified (>95%). For Western blot +ve control (Cat # **CD42b1-C**) is supplied in SDS-PAGE sample buffer (reduced). Load 10 ul/lane of **CD42b1-C** for good visibility with antibody Cat # **CD42b1-UL**. Store at -20oC in suitable size aliquots. SDS may crystallize in cold conditions. It should redissolve by warming before taking it from the stock. It should be heated once prior to loading on gels. If the product has been stored for several weeks, then it may be preferable to add 5 ul of fresh 2x sample buffer per 10 ul of the **CD42b1-C** solution prior to heating and loading on gels. This preparation is not biologically active. It is not suitable for ELISA or other applications where native protein is required. Do not freeze, thaw, or heat repeatedly

**Form and Storage**

**Cat# CD42b1-UL, unlabeled IgG1**

Purified antibody is supplied in 100 mM borate buffer, pH 8.4 in either **lyophilized** (100 ug) or **liquid** form (0.5 mg/ml or see lot sp. concn on the vial). Reconstitute powder in water at 100 ug/ml or as desired. Store at -20oC in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw. No bacteriostatic agent has been added. If needed, sodium azide (0.1%) or sodium merthiolate (0.05%) can be added to prevent bacterial growth. Used typically tested at 0.1-1 ug/ml depending upon the application.

**Cat# CD42b1-UL-B, Biotin-conjugate**

Purified antibody was coupled to Biotin using ADI Biotinylation

kit # 80300 at F/P ratio ~10-20:1. The antibody is supplied in PBS, pH 7.4, 0.1% azide in either **lyophilized** (50 tests per vial) or **liquid** form (50 tests/500 ul or see lot sp. concn on the vial). Reconstitute powder in PBS in 500 ul or more. Store at -20oC in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw.

Suggested conjugate dilutions are 1:5,000-1:30,000 ELISA. For other applications use as needed.

**Cat# CD42b1-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** (50 tests per vial) or **liquid** form (50 tests/500 ul or ~50 ug/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# CD42b1-PE, R-phycoerythrin (R-PE) conjugate**

Purified antibody was coupled to R-PE and supplied in PBS, pH 7.4, azide in either **lyophilized** (50 tests per vial) or **liquid** form (50 tests/500 ul or see lot sp. concn 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 10<sup>6</sup> cell for Flow cytometry or as optimized for a given tests.

**Color: Red**

**Absorption:** 488 nm

**Emission:** 575 nm

**Cat# CD42b1-APC, Allophycocyanin conjugate**

Purified antibody was coupled to APC and supplied in PBS, pH 7.4, azide in either **lyophilized** (50 tests per vial) or **liquid** form (50 tests/500 ul or see lot sp. concn on the vial). Reconstitute powder in PBS in 500 ul water or as desired. Store at -20oC in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw.

Suggested conjugate dilutions are 10 ul/test or 1 x 10<sup>6</sup> cell for Flow cytometry or as optimized for a given tests.

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**Mouse IgG (IgG1-3), IgA, IgM, and IgE ELISA kits**  
**CD42b1-con 100414A**