

Product Data Sheet

**Human CD235ab (Glycophorin A/B, GpA, GpB) Antibodies and Conjugates**

<b>Cat#</b> CD235abUL-100	Mouse Anti-Human CD235ab IgG, Unlabeled	<b>Size:</b> 100 tests
<b>Cat#</b> CD235abF-100	Mouse Anti-Human CD235ab IgG-FITC Conjugate	<b>Size:</b> 100 tests
<b>Cat#</b> CD235abP-100	Mouse Anti-Human CD235ab IgG-PE Conjugate	<b>Size:</b> 100 tests
<b>Cat#</b> CD235abPC-100	Mouse Anti-Human CD235ab IgG-PE-Cy5 Conjugate	<b>Size:</b> 100 tests

CD235a McAb recognizes glycophorins A (GPA) which is single-pass membrane sialoglycoprotein. GPA is the carrier of blood group M and N specificities, which provides the cells with a large mucin-like surface and it has been suggested this provides a barrier to cell fusion, so minimizing aggregation between red blood cells in the circulation. Another function for CD235a that has been proposed is as a membrane inhibitor of reactive lysis. CD235a McAb directed to papain-sensitive epitopes located in the extracellular specific domain of GPA, agglutinating papain-treated cells. GPA is expressed on early erythroblasts, late erythroblasts, erythroblasts, mature erythrocytes and the cells of erythroid cell lines K562 and HEL, but not on all other cells. Mature erythrocytes are CD235a positive and CD45 and CD71 all negative.

Monoclonal anti-human Anti-CD235ab is produced in mouse (IgG2b,k). It is purified by Protein A/G and coupled to FITC, PE, Cy5 etc.

**Suggested Isotype controls**

20005-13	Rat IgG2b unconjugated (isotype control)
20005-13-B	Rat IgG2b-Biotin conjugate (isotype control)
20005-13-F	Rat IgG2b-FITC conjugate (isotype control)
20005-13-HP	Rat IgG2b-HRP conjugate (isotype control)
20005-13-PC5	Rat IgG2b-R-PE-Cy5.5 conjugate control)
20005-13-PE	Rat IgG2b-R-PE conjugate (isotype control)

**Cat# CD235abUL-100, unlabeled**

The antibody is supplied in PBS, pH 7.4, and 0.05% azide in either **lyophilized** (100 tests) or **liquid** form (100 tests/100 ul). Antibody concn is approx. 1 ug per test. Reconstitute powder in PBS. Store at -20oC in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw.

**Cat# CD235abF-100, FITC-conjugate**

Purified antibody was coupled to FITC at F/P ratio ~5. The antibody is supplied (100 tests) in PBS, pH 7.4, 1% BSA (see lot sp concn on the vial) or in powder form. **Reconstitute** powder in PBS. Store at -20oC in suitable aliquots. Stability is ~6-12 months. Do not freeze/thaw.

Suggested conjugate dilutions are 1:20-1:500 for immunofluorescence. Or 1 test equivalent of antibody per million cells.

**Absorption @495 nm Emission @528 nm**

**Cat# CD235abP-100, PE-conjugate**

The purified antibody was coupled to R-Phycoerythrin (R-PE) (Molecular Weight 240,000 daltons) from seaweed using proprietary methods (A565nm/A280nm ~3-4).

**Absorption @490 nm, 545 nm and 565 nm  
Emission Wavelength: 580 nm**

The conjugate is provided in PBS, pH 7.5, containing 0.1% bovine serum albumin, (BSA) 0.05% sodium azide and stabilizing agent). DO NOT FREEZE. The product should be stored at 4oC and is stable for a minimum of 1 year. Do not store diluted solutions.

Recommended usage 1 test equivalent of antibody per million cells for Flow cytometry or FACS. Due to many experimental variations, optimum concn must be determined for a given applications

**Cat# CD235abPC-100, PE-Cy5-conjugate**

Purified antibody was coupled to PE-Cy5.5 (Cyanine 5.29-OSu) (Molecular Weight 975 daltons) at F/P ratio ~6:1. The antibody is supplied in PBS, pH 7.4, 0.5% BSA, IgG, and 0.05% azide in either **lyophilized** or **liquid** form (see lot specific concn on the vial). Reconstitute powder in PBS. Store at -20oC in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw.

**Suggested applications:** Suitable for immunomicroscopy and flow cytometry or FACS analysis as well as other antibody based fluorescent assays

**Suggested conjugate dilutions** are 1:100-1:500 for immunofluorescence. Users must optimize the dilutions for a given technique. Or 1 test equivalent of antibody per million cells.

**Absorption Wavelength: 650 nm  
Emission Wavelength: 667 nm**

**Recommended Working Dilution for ELISA**

Working dilution for the specific application should be determined by the investigator to obtain the best conditions and prepared immediately before use. Diluted solution should be discarded. This product can be used in immunodiffusion, ELISA, flow cytometry, immunofluorescence or immunolocalization.

**Related Material available for ADI**

CD235ab-ul-f-pe 100810A