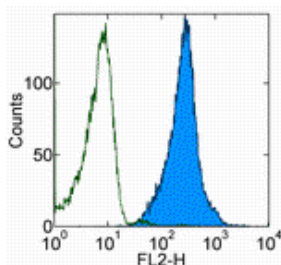


## Anti-Human CD230 (PrP) PE

**Catalog Number:** 12-9230

**Also Known As:** Prion protein

**RUO: For Research Use Only. Not for use in diagnostic procedures.**



Staining of normal human peripheral blood cells with Mouse IgG1 kappa Isotype Control PE (cat. 12-4714) (open histogram) or Anti-Human CD230 (PrP) PE (filled histogram). Cells in the lymphocyte gate were used for analysis.

### Product Information

**Contents:** Anti-Human CD230 (PrP) PE

**REF** **Catalog Number:** 12-9230

**Clone:** 4D5


**Concentration:** 5 µL (0.125 µg)/test

**Host/Isotype:** Mouse IgG1, kappa

**Formulation:** aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

 **Temperature Limitation:** Store at 2-8°C. Do not freeze. Light sensitive material.

**LOT** **Batch Code:** Refer to Vial

 **Use By:** Refer to Vial

 **Caution, contains Azide**

### Description

CD230 (prion protein; PrP<sup>C</sup>) is a 35 kD glycoprotein, attached to the cell surface via a GPI-anchor. While the function of CD230 is unclear, prion protein has been the focus of research based on its involvement in transmissible spongiform encephalopathies (TSE), including Creutzfeldt-Jakob disease in humans. CD230 undergoes a conformational change in which the cellular PrP<sup>C</sup> form is converted to the scrapie PrP<sup>Sc</sup> form. This conversion is essential for the infectiousness of prion-based diseases. CD230 is predominantly expressed on the surface of lymphocytes and monocytes, with weak expression on granulocytes and erythrocytes. In platelets, CD230 is expressed primarily intracellularly, and is upregulated to the surface upon activation.

### Applications Reported

This 4D5 antibody has been reported for use in flow cytometric analysis.

### Applications Tested

This 4D5 antibody has been pre-titrated and tested. This can be used at 5 µL (0.125 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test.

### References

Durig J, Giese A, Schulz-Schaeffer W, Rosenthal C, Schmucker U, Bieschke J, Duhrsen U, Kretzschmar HA. Differential constitutive and activation-dependent expression of prion protein in human peripheral blood leucocytes. *Br J Haematol.* 2000 Mar;108(3):488-95. (PubMed)

Barclay GR, Hope J, Birkett CR, Turner ML. Distribution of cell-associated prion protein in normal adult blood determined by flow cytometry. *Br J Haematol.* 1999 Dec;107(4):804-14. (PubMed)

Holada K, Simak J, Risitano AM, Maciejewski J, Young NS, Vostal JG. Activated platelets of patients with paroxysmal nocturnal hemoglobinuria express cellular prion protein. *Blood.* 2002 Jul 1;100(1):341-3. (PubMed)

### Related Products

12-4714 Mouse IgG1 K Isotype Control PE (P3.6.2.1)

