

**anti-human CD235a PE-conjugated****Cat-No.: H12223P****1 ml****Clone:** HIR2**Specificity:**

The antibody recognizes N-terminal, homologous portion of glycoporphins A(GPA) and BGPB) which are single-pass membrane sialoglycoproteins. GPA is the carrier of blood group M and N specificities, while GPB accounts for S, s and U specificities. GPA and GPB provide 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. The antibody agglutinates untreated RBCs but it fails to agglutinate papain-treated cells. The antibody HIR2 significantly binds to GPA, but weakly to GPB. The antibody is useful in erythroid cell development studies, because HIR2 antigen 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 characteristically CD235a positive and CD45 and CD71 negative).

**Isotype subclass:** Mouse IgG2b**Form:**

The purified antibody is conjugated with R-Phycoerythrin (R-PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.

**Physical state:** Liquid**Buffer/Additives/Preservative:**

PBS containing BSA and 15 mM sodium azide (pH 7.4).

**Expiration date:**

The reagent is stable until the expiry date stated on the vial label.

**Storage conditions:**

Store at 4 °C. Do not freeze. Avoid prolonged exposure to light.

**Application:**

The reagent is designed for Flow Cytometry analysis.

**Warning:**

Sodium azide is harmful if swallowed (R22). Keep out of reach of children (S2). Keep away from food, drink and animal feeding stuff (S13). Wear suitable protective clothing (S36). If swallowed, seek medical advice immediately and show this container or label (S46). Contact with acids liberates very toxic gas (R32). Azide compounds should be flushed with large volumes of water during disposal to avoid deposits in lead or copper plumbing where explosive conditions can develop.

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