

30-2705: Anti-Hu CD272 PE

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| Clone Name : | MIH26 |
| Application : | FACS |
| Reactivity : | Human,Non-Human Primates |
| Conjugate : | PE |
| Gene ID : | 151888 |
| Uniprot ID : | Q7Z6A9 |
| Format : | Purified |
| Alternative Name : | BTLA1 |
| Isotype : | Mouse IgG2a kappa |
| Immunogen Information : | cells transfected with human CD272 |

Description

Specificity : The mouse monoclonal antibody MIH26 recognizes an extracellular epitope of CD272, a transmembrane glycoprotein serving as a negative regulator of the activation in various leukocyte types. CD272, a type I transmembrane glycoprotein, contains in its intracellular domain two ITIM sequences, which are upon CD272 triggering phosphorylated and recruit SHP phosphatases to attenuate cell activation. CD272 is expressed on B and T lymphocytes, NK cells, dendritic cells, and macrophages, and its ligand is CD270. Defects in CD272-CD270 inhibitory mechanism lead to autoimmune diseases. Overexpression of CD272 is a marker of tolerant T cells.

Product Info

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| Amount : | 100 Tests |
| Purification : | Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography. |
| Content : | Formulation Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide |
| Storage condition : | Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze. |

Application Note

Flow cytometry: The reagent is designed for analysis of human blood cells using 10 µl reagent / 100 µl of whole blood or 106 cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.

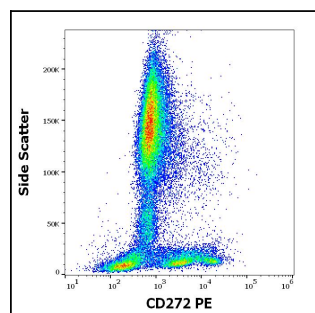


Figure 1 : Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD272 (MIH26) PE antibody (10 µl reagent / 100 µl of peripheral whole blood).

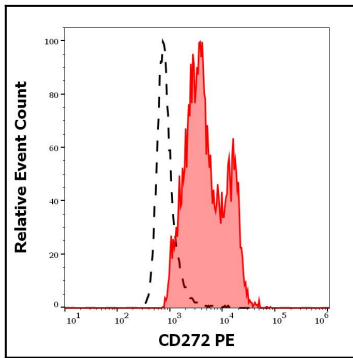


Figure 2 :Separation of human CD272 positive lymphocytes (red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD272 (MIH26) PE antibody (10 μ l reagent / 100 μ l of peripheral whole blood).