

### 30-2705: Anti-Hu CD272 PE

<b>Clone Name :</b>	MIH26
<b>Application :</b>	FACS
<b>Reactivity :</b>	Human,Non-Human Primates
<b>Conjugate :</b>	PE
<b>Gene ID :</b>	151888
<b>Uniprot ID :</b>	Q7Z6A9
<b>Format :</b>	Purified
<b>Alternative Name :</b>	BTLA1
<b>Isotype :</b>	Mouse IgG2a kappa
<b>Immunogen Information :</b>	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

<b>Amount :</b>	100 Tests
<b>Purification :</b>	Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.
<b>Content :</b>	Formulation Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
<b>Storage condition :</b>	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 10<sup>6</sup> cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.

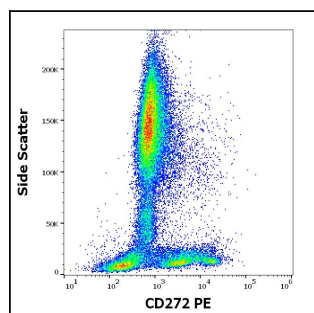


Figure 1 : Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD272 (MIH26) PE antibody (10 µl reagent / 100 µl of peripheral whole blood).

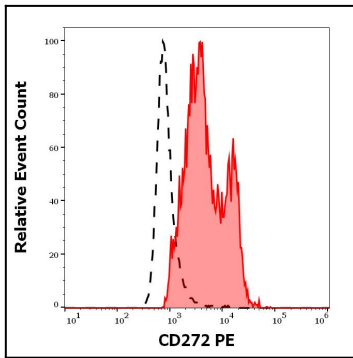


Figure 2 :Separation of human CD272 positive lymphocytes (red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD272 (MIH26) PE antibody (10  $\mu$ l reagent / 100  $\mu$ l of peripheral whole blood).