

## 30-2553: Anti-Human CD56 PE-DyLight® 594 (Clone : LT56) (Discontinued)

|                                |  |
|--------------------------------|--|
| <b>Clonality :</b>             | Monoclonal                                   |
| <b>Clone Name :</b>            | LT56   |
| <b>Application :</b>           | FACS   |
| <b>Reactivity :</b>            | Human  |
| <b>Gene :</b>                  | NCAM1  |
| <b>Gene ID :</b>               | 4684   |
| <b>Alternative Name :</b>      | NCAM1, MSK39,neural cell adhesion molecule 1 |
| <b>Isotype :</b>               | Mouse IgG2a                                  |
| <b>Immunogen Information :</b> | Cell line KG1a                               |

### Description

CD56 (NCAM, neural cell adhesion molecule) is a transmembrane glycoprotein of immunoglobulin family serving as adhesive molecule which is ubiquitously expressed in nervous system, usually as 120 kDa, 140 kDa or 180 kDa isoform, and it is also found on T cells and NK cells. Polysialic modification results in reduction of CD56-mediated cell adhesion and is involved in cell migration, axonal growth, pathfinding and synaptic plasticity. CD56 is a widely used neuroendocrine marker with a high sensitivity for neuroendocrine tumours and ovarian granulosa cell tumours.

Specificity : The mouse monoclonal antibody LT56 recognizes an extracellular epitope of CD56 (NCAM), a transmembrane glycoprotein expressed ubiquitously in the nervous system and found also on T cells and NK cells.

### Product Info

|                            |   |
|----------------------------|---|
| <b>Amount :</b>            | 100 tests   |
| <b>Purification :</b>      | The purified antibody is conjugated with tandem dye PE-DyLight <sup>Å</sup> ® 594 under optimum conditions. The conjugate is purified by size-exclusion chromatography. |
| <b>Content :</b>           | Formulation : Stabilizing phosphate buffered saline (PBS) solution containing 15 mM sodium azide  |
| <b>Storage condition :</b> | Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light.   |

### Application Note

Flow cytometry: The reagent is designed for analysis of human blood cells using 4 Åµl reagent / 100 Åµl of whole blood or 10<sup>6</sup> cells in a suspension. The content of a vial (0.4 ml) is sufficient for 100 tests.

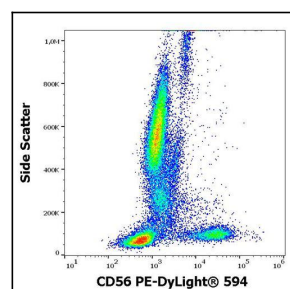


Figure 1 : Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD56 (LT56) PE-DyLight® 594 antibody (10 Åµl reagent / 100 Åµl of peripheral whole blood).

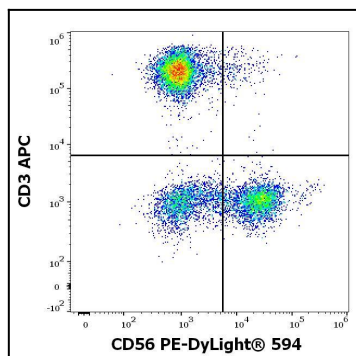


Figure 2 : Flow cytometry multicolor surface staining of human lymphocytes using anti-human CD56 (LT56) PE-DyLight® 594 antibody (10 µl reagent / 100 µl of peripheral whole blood) and anti-human CD3 (UCHT1) APC antibody (10 µl reagent / 100 µl of peripheral whole blood).

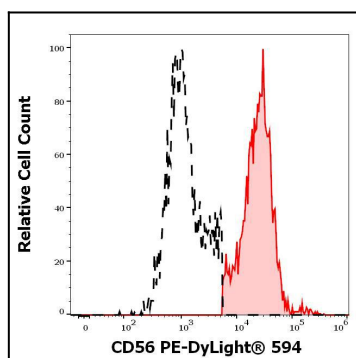


Figure 3 : Separation of human CD56 positive CD3 negative NK cells (red-filled) from CD56 negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) stained using anti-human CD56 (LT56) PE-DyLight® 594 antibody (10 µl reagent / 100 µl of peripheral whole blood).