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30-2854: Anti-SCIMP PE MAb (Clone: NVL-07)

Clonality :	Monoclonal
Clone Name :	NVL-07
Application :	FACS
Reactivity :	Human
Conjugate :	PE
Gene :	SCIMP
Gene ID :	388325
Uniprot ID :	Q6UWF3
Alternative Name :	NVL
Isotype :	Mouse IgG2a
Immunogen Information :	Recombinant intracellular part of human SCIMP

Description

Specificity: The mouse monoclonal antibody NVL-07 recognizes intracellular part of human transmembrane adaptor SCIMP. This protein of 17 kDa predicted Mw migrates as a 22 kDa band on SDS PAGE.

SCIMP (SLP adaptor and Csk interacting membrane protein), also known as Nvl, is a palmitoylated transmembrane adaptor protein expressed in professional antigen presenting cells, most prominently in the lymph nodes and spleen. It is associated with tetraspanin-enriched microdomains (together with MHC II). There is a close relationship between SCIMP and tyrosinkinase Lyn, which is constitutively bound to it by its SH3 domain. After MHC II-mediated stimulation in the immunological synapse SCIMP becomes phosphorylated at several tyrosine residues and provides docking sites for Grb2 and SLP65 or SLP76 adaptors transducing the signal downstream, as well as for the kinase Csk with modulatory roles.

Product Info

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 :	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 10^6 cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.

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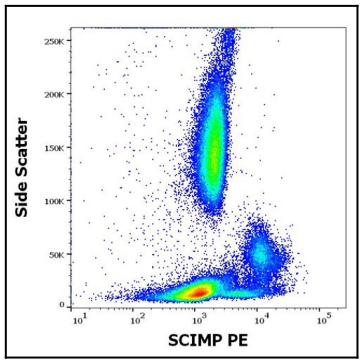

Figure 1: Flow cytometry intracellular staining pattern of human peripheral whole blood stained using anti-SCIMP (NVL-07) PE antibody

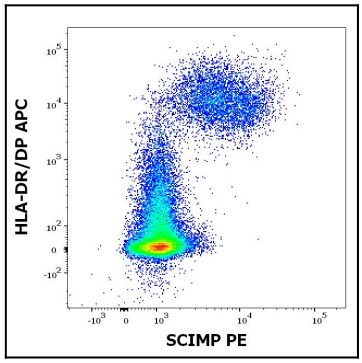

Figure 2: Flow cytometry multicolor staining pattern of human lymphocytes using anti-human HLA-DR/DP (MEM-136) APC antibody and anti-SCIMP (NVL-07) PE antibody

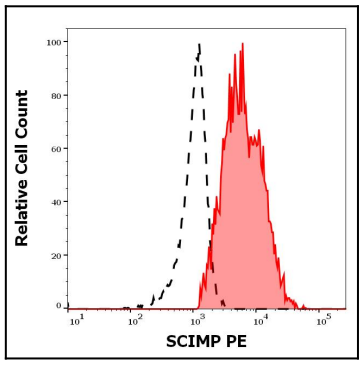

Figure 3: Separation of human HLA-DR/DP positive SCIMP positive lymphocytes (red-filled) from HLA-DR/DP negative SCIMP negative lymphocytes (black-dashed) in flow cytometry analysis (intracellular staining) of human peripheral whole blood stained using anti-SCIMP (NVL-07) PE antibody