

30-2918: Anti-Hu CD354 PE Mab (6B1)

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| Clonality : | Monoclonal |
| Clone Name : | 6B1 |
| Application : | FACS |
| Reactivity : | Human |
| Conjugate : | PE |
| Gene : | TREM1 |
| Gene ID : | 54210 |
| Uniprot ID : | Q9NP99 |
| Alternative Name : | TREM-1 |
| Isotype : | Mouse IgG1 |
| Immunogen Information : | recombinant human CD354 fused with IgG |

Description

Specificity: The mouse monoclonal antibody 6B1 (also known as 6B1.1G12) recognizes an extracellular epitope of human CD354 (TREM-1), a transmembrane glycoprotein, serving as an important innate immunity receptor.

CD354 (TREM-1), a cell surface glycoprotein expressed mainly on monocytes, macrophages, and neutrophils, but also on e.g. endothelial cells or bronchial epithelium, plays an important role in innate immune responses. Upon triggering by its ligands (mainly bacterial and fungal components, but also some viruses, such as Marburg or Ebola virus), it initiates signaling cascades leading to release of pro-inflammatory cytokines and chemokines. CD354 is strongly present in infectious inflammatory lesions (e.g. in folliculitis or impetigo), but not so much in non-infectious inflammatory lesions, (e.g. vasculitis or psoriasis). However, under certain conditions neutrophils can upregulate CD354 also under non-infectious inflammatory conditions, e.g. in rheumatoid arthritis. Soluble CD354 (sTREM-1) is an important biomarker for identification of septic patients, as well as for prediction of their survival.

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 : | Storage Buffer: 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.

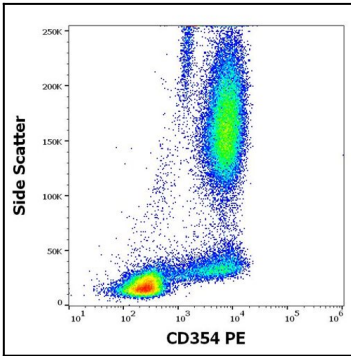


Figure 1: Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD354 (6B1) PE antibody (10 μ l reagent / 100 μ l of peripheral whole blood).

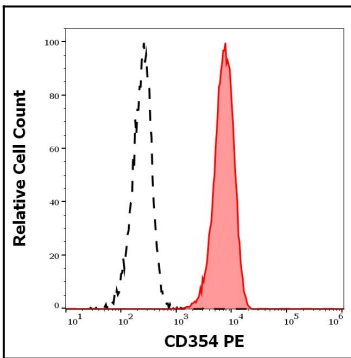


Figure 2: Separation of human neutrophil granulocytes (red-filled) from lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD354 (6B1) PE antibody (10 μ l reagent / 100 μ l of peripheral whole blood).