

### 30-2647AC: APC Conjugated Anti-Human CD151 Antibody (Clone: 50-6)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	50-6
<b>Application :</b>	FACS
<b>Reactivity :</b>	Human
<b>Conjugate :</b>	APC
<b>Gene :</b>	CD151
<b>Gene ID :</b>	977
<b>Uniprot ID :</b>	P48509
<b>Format :</b>	Purified
<b>Alternative Name :</b>	RAPH blood group, MER2, SFA1, GP27, GP27,CD151 molecule (Raph blood group)
<b>Isotype :</b>	Mouse IgG1 kappa
<b>Immunogen Information :</b>	Human epidermoid carcinoma cell line Hep-3

#### Description

CD151, also known as PETA-3 (platelet-endothelial tetraspan antigen), is a four-pass transmembrane glycoprotein with short cytoplasmic N- and C-termini. CD151 is expressed mainly in platelets and megakaryocytes, immature hematopoietic cells, activated T cells, in endothelium, muscle cells, and epithelial cells. It associates with CD9, CD181, and integrin complexes alpha 3 / beta 1 (CD49c / CD29), alpha 5 / beta 1 (CD49e / CD29), and alpha 6 / beta 4 (CD49f / CD104). CD151 appears to be involved in cell adhesion and migration, including metastasis.

**Specificity :** The mouse monoclonal antibody CD151 recognizes an extracellular epitope of CD151 (also known as PETA-3), a 29 kDa transmembrane protein of tetraspanin family, expressed in many cell types.

#### Product Info

<b>Amount :</b>	100 Tests
<b>Purification :</b>	Purified antibody is conjugated with activated allophycocyanin (APC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.
<b>Content :</b>	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
<b>Storage condition :</b>	Store at 2-8°C protected from 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.

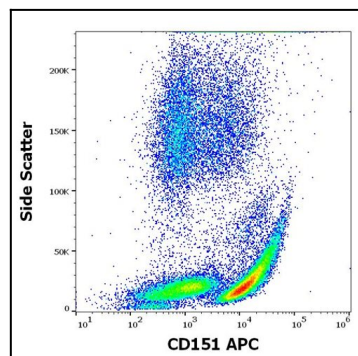


Figure 1: Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD151 (50-6) APC antibody (10 µl reagent / 100 µl of peripheral whole blood).

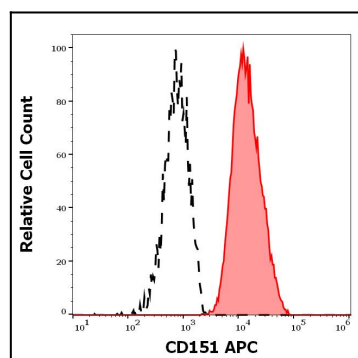


Figure 2: Separation of human thrombocytes (red-filled) from CD151 negative neutrophil granulocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD151 (50-6) APC antibody (10 µl reagent / 100 µl of peripheral whole blood).