

## anti-Human CD151 Antibody | anti-CD151 antibody

Anti-Hu CD151 APC

|                               |                            |                                                         |
|-------------------------------|----------------------------|---------------------------------------------------------|
| CATALOG #<br><b>AAA129302</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>Flow Cytometry, Functional Assay</b> |
|-------------------------------|----------------------------|---------------------------------------------------------|

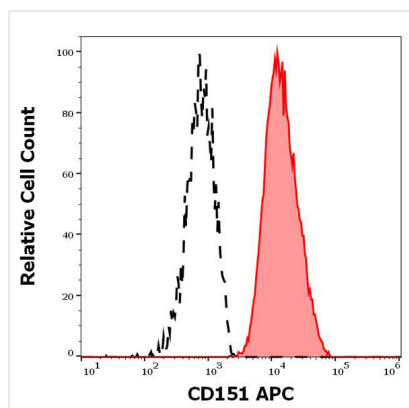
### PRODUCT SYNONYMS

CD151; Anti-Hu CD151 APC; CD151 molecule (Raph blood group); RAPH blood group; MER2; SFA1; PETA-3; GP27; anti-CD151 antibody

### PRODUCT SPECIFICATIONS

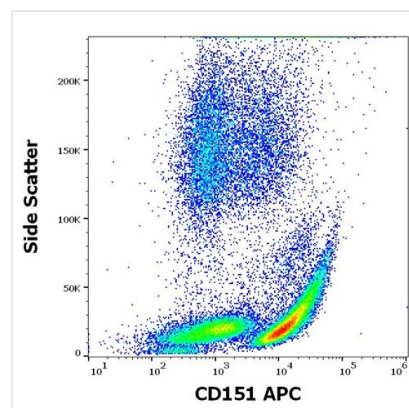
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|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity                                      | Human                                                                                                                                                                                                                                                           |
| Isotype                                         | Mouse IgG1 kappa                                                                                                                                                                                                                                                |
| Clone Number                                    | 50-6                                                                                                                                                                                                                                                            |
| 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.                                                                    |
| Form/Format                                     | APC<br>Purified antibody is conjugated with activated allophycocyanin (APC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.<br>Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 m |
| Applicable Applications for anti-CD151 antibody | FCM/FACS (Flow Cytometry)                                                                                                                                                                                                                                       |
| Immunogen                                       | Human epidermoid carcinoma cell line Hep-3                                                                                                                                                                                                                      |
| Preparation and Storage                         | Store at 2-8 degree C. Protect from prolonged exposure to light. Do not freeze.                                                                                                                                                                                 |

### IMAGES



#### FCM/FACS (Flow Cytometry)

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 ?l reagent / 100 ?l of peripheral whole blood).



#### FCM/FACS (Flow Cytometry)

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

## ADDITIONAL INFORMATION

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|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-CD151 antibody</b> | 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.                                                                                                                                                                                                                                                                                                         |
| <b>References</b>                                          | *Sadej R, Grudowska A, Turczyk L, Kordek R, Romanska HM: CD151 in cancer progression and metastasis: a complex scenario. Lab Invest. 2014 Jan;94(1):41-51., URL: <a href="http://www.ncbi.nlm.nih.gov/pubmed/24247563">http://www.ncbi.nlm.nih.gov/pubmed/24247563</a> ,*Spring FA, Griffiths RE, Mankelov TJ, Agnew C, Parsons SF, Chasis JA, Anstee DJ: Tetraspanins CD81 and CD82 facilitate ?4?1-mediated adhesion of human erythroblasts to vascular cell adhesion molecule-1. PLoS One. 2013 May 21;8(5):e62654., URL: <a href="http://www.ncbi.nlm.nih.gov/pubmed/?term=spring+fa+griffiths+re">http://www.ncbi.nlm.nih.gov/pubmed/?term=spring+fa+griffiths+re</a> Testa JE Brooks PC Lin JM Quigley JP: Eukaryotic expression cloning with an antimetastatic monoclonal antibody identifies a tetraspanin (PETA-3/CD151) as an effector of human tumor cell, |

## NCBI AND UNIPROT INFORMATION

|                                         |                                                                                                                                                                                                                                                                 |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NCBI GI #</b>                        | <a href="#">21237751</a>                                                                                                                                                                                                                                        |
| <b>NCBI GeneID</b>                      | <a href="#">977</a>                                                                                                                                                                                                                                             |
| <b>NCBI Accession #</b>                 | <a href="#">NP_620599.1</a>                                                                                                                                                                                                                                     |
| <b>NCBI GenBank Nucleotide #</b>        | <a href="#">NM_139030.3</a>                                                                                                                                                                                                                                     |
| <b>UniProt Accession #</b>              | <a href="#">P48509</a> ; <a href="#">Q14826</a> ; <a href="#">Q86U54</a> ; <a href="#">Q96TE3</a> ; <a href="#">A8KAK8</a> ; <a href="#">E9PI15</a>                                                                                                             |
| <b>Molecular Weight</b>                 | 28,295 Da                                                                                                                                                                                                                                                       |
| <b>NCBI Official Full Name</b>          | CD151 antigen                                                                                                                                                                                                                                                   |
| <b>NCBI Official Synonym Full Names</b> | CD151 molecule (Raph blood group)                                                                                                                                                                                                                               |
| <b>NCBI Official Symbol</b>             | CD151                                                                                                                                                                                                                                                           |
| <b>NCBI Official Synonym Symbols</b>    | GP27; MER2; RAPH; SFA1; PETA-3; TSPAN24                                                                                                                                                                                                                         |
| <b>NCBI Protein Information</b>         | CD151 antigen; tspan-24; tetraspanin-24; membrane glycoprotein SFA-1; CD151 antigen (Raph blood group); hemidesmosomal tetraspanin CD151; platelet surface glycoprotein gp27; platelet-endothelial tetraspan antigen 3; platelet-endothelial cell tetraspan ant |
| <b>UniProt Protein Name</b>             | CD151 antigen                                                                                                                                                                                                                                                   |
| <b>UniProt Gene Name</b>                | <b>CD151</b>                                                                                                                                                                                                                                                    |
| <b>UniProt Synonym Gene Names</b>       | TSPAN24; PETA-3; Tspan-24                                                                                                                                                                                                                                       |
| <b>UniProt Entry Name</b>               | CD151_HUMAN                                                                                                                                                                                                                                                     |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://www.aaabiotech.com/human-antibody/cd151/129302>