

## Rabbit CD151 Polyclonal Antibody | anti-CD151 antibody

CD151 Antibody

| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                                                                       |
|-----------|--------|-------------------|------------------------------------------------------------------------------------|
| AAA326463 | Rabbit | Human, Mouse, Rat | ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot |

### PRODUCT SYNONYMS

CD151; Polyclonal Antibody; CD151 Antibody; CD151 antigen; CD151 molecule (Raph blood group); CD151 molecule; CD151\_HUMAN; GP27; hemidesmosomal tetraspanin CD151; Membrane glycoprotein SFA-1; MER2; PETA-3; PETA3; Platelet endothelial tetraspan antigen 3; platelet surface glycoprotein gp27; Platelet-endothelial cell tetraspan antigen 3; Platelet-endothelial tetraspan antigen 3; RAPH; Red blood cell antigen MER2; SFA 1; SFA1; Tetraspanin-24; Tspan-24; TSPAN24; anti-CD151 antibody

### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                                                      |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                                                               |
| Reactivity                                      | Human, Mouse, Rat                                                                                                                                                                                    |
| Clonality                                       | Polyclonal                                                                                                                                                                                           |
| Isotype                                         | IgG                                                                                                                                                                                                  |
| Specificity                                     | CD151 antibody detects endogenous levels of total CD151                                                                                                                                              |
| Purity/Purification                             | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.                                                                                                        |
| Form/Format                                     | Liquid<br>Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                                                                                                        |
| Concentration                                   | 1mg/ml (varies by lot)                                                                                                                                                                               |
| Sequence Length                                 | 253                                                                                                                                                                                                  |
| Applicable Applications for anti-CD151 antibody | ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)                                                                                             |
| Immunogen                                       | A synthesized peptide derived from human CD151                                                                                                                                                       |
| Subcellular Location                            | Membrane.                                                                                                                                                                                            |
| Tissue Specificity                              | Expressed in a variety of tissues including vascular endothelium and epidermis. Expressed on erythroid cells, with a higher level of expression in erythroid precursors than on mature erythrocytes. |
| Predicted Cross Reactivity                      | <b>Bovine, Horse, Dog, Xenopus</b>                                                                                                                                                                   |
| Similarity                                      | Bovine (80%), Horse (100%), Dog (90%), Xenopus (90%)                                                                                                                                                 |
| Conjugation                                     | Unconjugated                                                                                                                                                                                         |
| Preparation and Storage                         | Store at -20 degree C. Stable for 12 months from date of receipt.                                                                                                                                    |

IMAGES



IF (Immunofluorescence)

AAA326463 staining HepG2 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



IHC (Immunohistochemistry)

AAA326463 at 1/100 staining Human urothelial cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)

Western blot analysis of Mouse kidney lysate, using CD151 Antibody. The lane on the left is treated with the antigen-specific peptide.



WB (Western Blot)

Western blot analysis of extracts from mouse muscle, using CD151 Antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-CD151 antibody

Description: The protein encoded by this gene is a member of the transmembrane 4 superfamily, also known as the tetraspanin family. Most of these members are cell-surface proteins that are characterized by the presence of four hydrophobic domains. The proteins mediate signal transduction events that play a role in the regulation of cell development, activation, growth and motility. This encoded protein is a cell surface glycoprotein that is known to complex with integrins and other transmembrane 4 superfamily proteins. It is involved in cellular processes including cell adhesion and may regulate integrin trafficking and/or function. This protein enhances cell motility, invasion and metastasis of cancer cells. Multiple alternatively spliced transcript variants that encode the same protein have been described for this gene.

Function: Essential for the proper assembly of the glomerular and tubular basement membranes in kidney.

Subunit Structure: Interacts with integrins ITGA3:ITGB1, ITGA5:ITGB1, ITGA3:ITGB1 and ITGA6:ITGB4 and with CD9 and CD181 (PubMed:11907260). Interacts (via the second extracellular domain) with integrin ITGAV:ITGB3 (PubMed:27993971).

Similarity: Belongs to the tetraspanin (TM4SF) family.

NCBI AND UNIPROT INFORMATION

|                                  |                                                |
|----------------------------------|------------------------------------------------|
| NCBI GI #                        | 87159824                                       |
| NCBI GeneID                      | 977                                            |
| NCBI Accession #                 | NP_001034579.1                                 |
| NCBI GenBank Nucleotide #        | NM_001039490.1                                 |
| UniProt Accession #              | P48509; Q14826; Q86U54; Q96TE3; A8KAK8; E9PI15 |
| Molecular Weight                 | Observed: 28 kDa<br>Predicted: 29 kDa          |
| NCBI Official Full Name          | CD151 antigen                                  |
| NCBI Official Synonym Full Names | CD151 molecule (Raph blood group)              |
| NCBI Official Symbol             | CD151                                          |
| NCBI Official Synonym Symbols    | GP27; MER2; RAPH; SFA1; PETA-3; TSPAN24        |
| NCBI Protein Information         | CD151 antigen                                  |
| UniProt Protein Name             | CD151 antigen                                  |
| UniProt Gene Name                | CD151                                          |

**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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/cd151-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/326463>