

## Rabbit anti-Human CD31 Monoclonal Antibody | anti-CD31 antibody

Anti-CD31 [BAG-85D10]

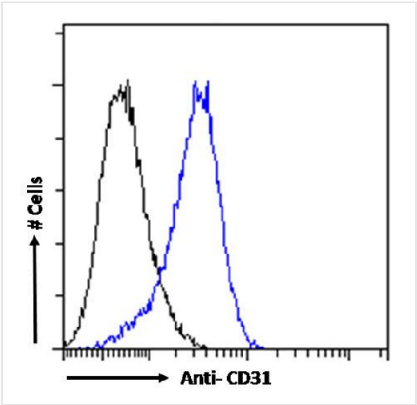
|                              |                       |                            |                                             |
|------------------------------|-----------------------|----------------------------|---------------------------------------------|
| CATALOG #<br><b>AAA72148</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>Immunohistochemistry</b> |
|------------------------------|-----------------------|----------------------------|---------------------------------------------|

### PRODUCT SYNONYMS

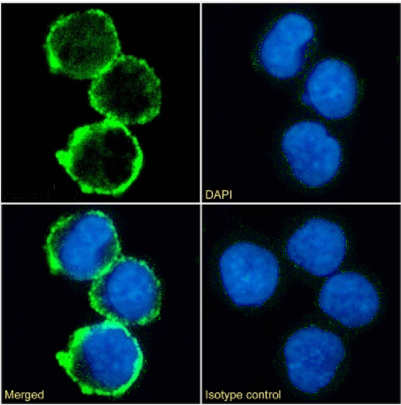
CD31; Monoclonal Antibody; Anti-CD31 [BAG-85D10]; PECAM1; Platelet endothelial cell adhesion molecule; PECAM-1; EndoCAM; GPIIA<sup>+</sup>; PECA1; JC/70A; BAG 85D10; anti-CD31 antibody

### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                                                                                                                                                                                                                        |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                                                                                                                                                                                                                                 |
| Reactivity                                     | Human                                                                                                                                                                                                                                                                                                                                  |
| Clonality                                      | Monoclonal                                                                                                                                                                                                                                                                                                                             |
| Isotype                                        | Rabbit IgG, kappa                                                                                                                                                                                                                                                                                                                      |
| Clone Number                                   | BAG-85D10                                                                                                                                                                                                                                                                                                                              |
| Specificity                                    | This antibody recognizes CD31 (PECAM1) which is a member of the immunoglobulin superfamily and is expressed at various circulating cells, such as neutrophils, monocytes, platelets as well as on endothelial cells. CD31 is a cell adhesion molecule and is involved in the leukocyte transendothelial migration during inflammation. |
| Purity/Purification                            | Purified antibody. Protein A affinity purified                                                                                                                                                                                                                                                                                         |
| Form/Format                                    | PBS with 0.02% Proclin 300.                                                                                                                                                                                                                                                                                                            |
| Concentration                                  | 1mg/ml (varies by lot)                                                                                                                                                                                                                                                                                                                 |
| Applicable Applications for anti-CD31 antibody | IHC (Immunohistochemistry)                                                                                                                                                                                                                                                                                                             |
| Chimeric Use Statement                         | This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgG1 format, for improved compatibility with existing reagents, assays and techniques.                                                                                                                                                |
| PMID                                           | 8559609                                                                                                                                                                                                                                                                                                                                |
| Preparation and Storage                        | Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.                                                                                                                                                                                                                                         |



**FCM/FACS (Flow Cytometry)**  
Flow cytometry using the Anti-CD31 antibody BAG-85D10 (AAA72148). Paraformaldehyde fixed Jurkat cells were stained with anti-unknown specificity antibody or the rabbit IgG version of BAG-85D10 (, blue line) at a dilution of 1:100 for 1h at RT. After washing, the bound antibody was detected using a goat anti-rabbit IgG AlexaFluor 488 antibody at a dilution of 1:1000 and cells analyzed using a FACSCanto flow-cytometer.



**IF (Immunofluorescence)**  
Immunofluorescence staining of fixed K562 cells with anti-CD31 antibody BAG-85D10 (AAA72148) Immunofluorescence analysis of paraformaldehyde fixed K562 cells on Shi-fix coverslips stained with the chimeric rabbit IgG version of BAG-85D10 ( ) at 10ug/ml for 1h followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing membrane staining. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom , DAPI, merged channels and an isotype control. The isotype control was an unknown specificity antibody followed by staining with Alexa Fluor 488 secondary antibody.

ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                      |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-CD31 antibody | Recombinant monoclonal antibody to CD31. Recombinant Platform with variable regions (i.e. specificity) from the hybridoma BAG-85D10.<br>This antibody was raised by immunising mice with human peripheral blood lymphocytes from a patient with high numbers of gamma-delta T cells. |
| Product Categories/Family for anti-CD31 antibody   | <a href="#">megakaryocytes</a> ; <a href="#">thrombocytes</a> ; <a href="#">immunology</a>                                                                                                                                                                                           |
| References                                         | von Schweinitz et al. Extramedullary Hematopoiesis and Intratumoral Production of Cytokines in Childhood Hepatoblastoma <i>Pediatr Res.</i> 1995 Oct;38(4):555-63<br>Note on publication: This article describes the use of BAG 85D10 antibody.                                      |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                |
|----------------------------------|------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 313760624                                                                                      |
| NCBI GeneID                      | 5175                                                                                           |
| NCBI Accession #                 | NP_000433.4                                                                                    |
| NCBI GenBank Nucleotide #        | NM_000442.4                                                                                    |
| UniProt Accession #              | P16284; Q6LDA9; Q8TBH1; Q96RF5; Q96RF6; Q9NP65; Q9NPB7; Q9NPG9; Q9NQS9; Q9NQT0; Q9NQT1; Q9NQT2 |
| Molecular Weight                 | 82,536 Da                                                                                      |
| NCBI Official Full Name          | platelet endothelial cell adhesion molecule                                                    |
| NCBI Official Synonym Full Names | platelet/endothelial cell adhesion molecule 1                                                  |
| NCBI Official Symbol             | PECAM1                                                                                         |
| NCBI Official Synonym Symbols    | CD31; PECA1; GPIIA'; PECAM-1; endoCAM; CD31/EndoCAM                                            |
| NCBI Protein Information         | platelet endothelial cell adhesion molecule; CD31 antigen                                      |
| UniProt Protein Name             | Platelet endothelial cell adhesion molecule                                                    |
| UniProt Gene Name                | PECAM1                                                                                         |

|                            |             |
|----------------------------|-------------|
| UniProt Synonym Gene Names | PECAM-1     |
| UniProt Entry Name         | PECA1_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.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cd31-antibody-clone-bag-85d10-immunohistochemistry-elisa/72148>