Datasheet for ABIN2181646

# CD31 Protein (AA 28-601) (Fc Tag)

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## Overview

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| Quantity: | 200 µg |
| Target: | CD31 (PECAM1) |
| Protein Characteristics: | AA 28-601 |
| Origin: | Human |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This CD31 protein is labelled with Fc Tag. |

## Product Details

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| Sequence: | AA 28-601 |
| Characteristics: | This protein carries a human IgG1 Fc tag at the C-terminus. The protein has a calculated MW of 90.5 kDa. The protein migrates as 100-140 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation. |
| Purity: | >95 % as determined by SDS-PAGE. |
| Sterility: | 0.22 µm filtered |
| Endotoxin Level: | Less than 1.0 EU per µg by the LAL method. |

## Target Details

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| Target: | CD31 (PECAM1) |
| Alternative Name: | CD31 (PECAM1 Products) |

## Target Details

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| Background: | Cluster of Differentiation 31 (CD31) is also known as Platelet endothelial cell adhesion molecule (PECAM-1), is a 130- kDa transmembrane glycoprotein expressed by endothelial cells, platelets, macrophages and Kupffer cells, granulocytes, T / NK cells, lymphocytes, megakaryocytes, osteoclasts, neutrophils, certain tumors, and is the only known member of the CAM family on platelets. CD31 is found on the surface of platelets, monocytes, neutrophils, and some types of T-cells, and makes up a large portion of endothelial cell intercellular junctions. The encoded protein is a member of the immunoglobulin superfamily and is likely involved in leukocyte migration, angiogenesis, and integrin activation. CD31 plays a key role in removing aged neutrophils from the body. CD31 mediates the homotypic or heterotypic cell adhesion by binding to itself or the leukocyte integrin αvβ3, and thus plays a role in neutrophil recruitment in inflammatory responses, transendothelial migration of leukocytes, as well as in cardiovascular development. In addition, it has been shown that CD31 expression is up-regulated by LPS stimulation, and might function as a feedback negative regulator of LPS inflammatory response in macrophages. |
| Molecular Weight: | 90.6 kDa |
| Pathways: | Regulation of Actin Filament Polymerization |

## Application Details

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| Restrictions: | For Research Use only |

## Handling

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| Format: | Lyophilized |
| Buffer: | Tris with Glycine, Arginine and NaCl, pH 7.5 |
| Handling Advice: | Please avoid repeated freeze-thaw cycles. |
| Storage: | -20 °C |
| Storage Comment: | No activity loss was observed after storage at: In lyophilized state for 1 year (4 °C-8 °C), After reconstitution under sterile conditions for 1 month (4 °C-8 °C) or 3 months (-20 °C to -70 °C). |

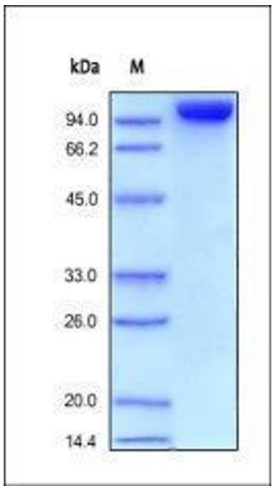
## Publications

| | |
|---|---|
| Product cited in: | Kerros, Tripathi, Zha, Mehrens, Sergeeva, Philips, Qiao, Peters, Katayama, Sukhumalchandra, Ruisaard, Perakis, St John, Lu, Mittendorf, Clise-Dwyer, Herrmann, Alatrash, Toniatti, Hanash, Ma, Molldrem: "Neuropilin-1 mediates neutrophil elastase uptake and cross-presentation in |

## Publications

breast cancer cells." in: **The Journal of biological chemistry**, Vol. 292, Issue 24, pp. 10295-10305, (2017) (PubMed).

## Images




**SDS-PAGE**

**Image 1.** Human CD31, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.