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# Product datasheet for TA505003

## CD31 (PECAM1) Mouse Monoclonal Antibody [Clone ID: OTI2C3]

### Product data:

| | |
|---|---|
| **Product Type:** | Primary Antibodies |
| **Clone Name:** | OTI2C3 |
| **Applications:** | FC, IF, IHC, WB |
| **Recommended Dilution:** | WB 1:200 - 1:1000, IHC 1:150, IF 1:100 |
| **Reactivity:** | Human |
| **Host:** | Mouse |
| **Isotype:** | IgG1 |
| **Clonality:** | Monoclonal |
| **Immunogen:** | Full length human recombinant protein of human PECAM1(NP_000433) produced in HEK293T cell. |
| **Formulation:** | PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide. |
| **Concentration:** | 1 mg/ml |
| **Purification:** | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G) |
| **Conjugation:** | Unconjugated |
| **Storage:** | Store at -20°C as received. |
| **Stability:** | Stable for 12 months from date of receipt. |
| **Predicted Protein Size:** | 82.4 kDa |
| **Gene Name:** | platelet and endothelial cell adhesion molecule 1 |
| **Database Link:** | NP_000433<br>Entrez Gene 5175 Human<br>P16284 |
| **Background:** | The protein encoded by this gene 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. [provided by RefSeq, May |

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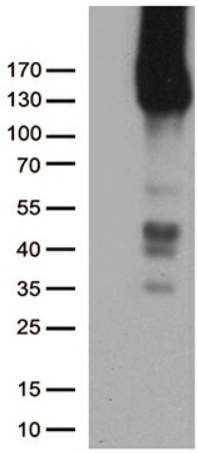
**Synonyms:** CD31; CD31/EndoCAM; endoCAM; GPIIA'; PECA1; PECAM-1

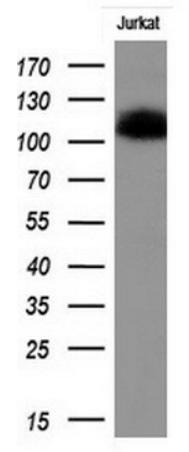
**Protein Families:** Druggable Genome, ES Cell Differentiation/IPS, Transmembrane

**Protein Pathways:** Cell adhesion molecules (CAMs), Leukocyte transendothelial migration

## Product images:




HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY PECAM1 ([RC208654], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PECAM1. Positive lysates [LY424716] (100ug) and [LC424716] (20ug) can be purchased separately from OriGene.




Western blot analysis of extracts (10ug) from 1 cell line by using anti-PECAM1 monoclonal antibody at 1:200.

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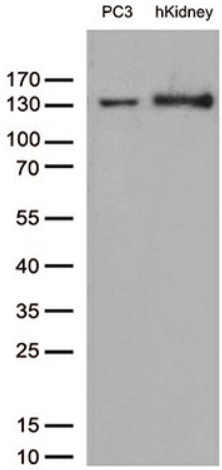
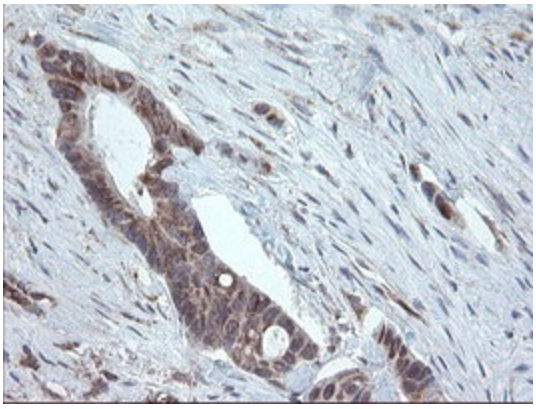
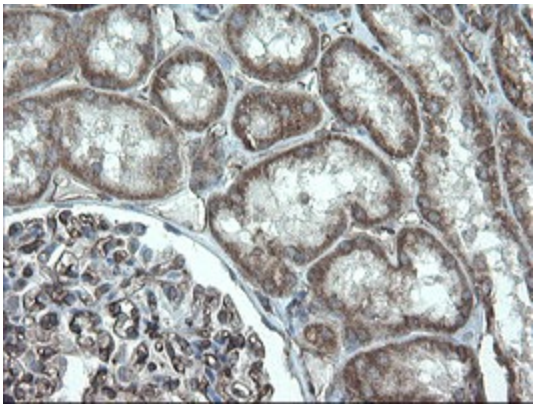



Western blot analysis of extracts (35ug) from PC3 cell line and human kidney tissue by using anti-PECAM1 monoclonal antibody. 1:500



Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human colon tissue using anti-PECAM1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, TA505003)



Immunohistochemical staining of paraffin-embedded Human Kidney tissue within the normal limits using anti-PECAM1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, TA505003)

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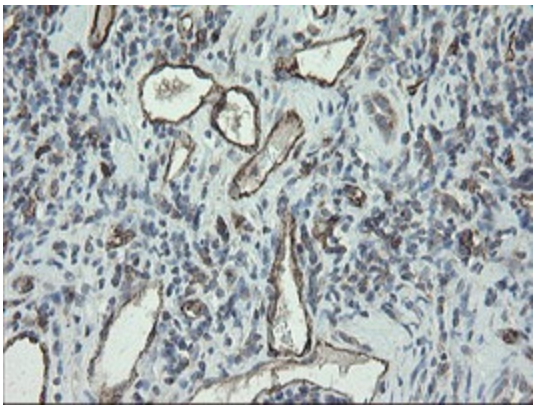
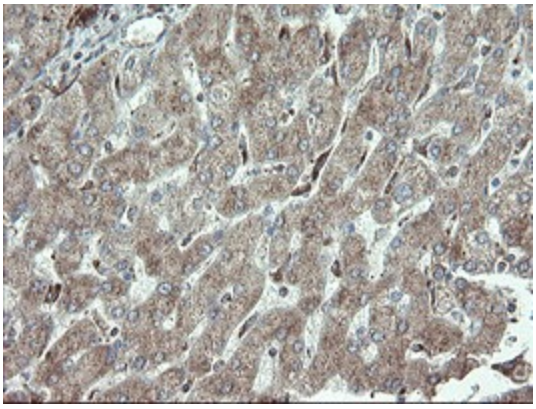
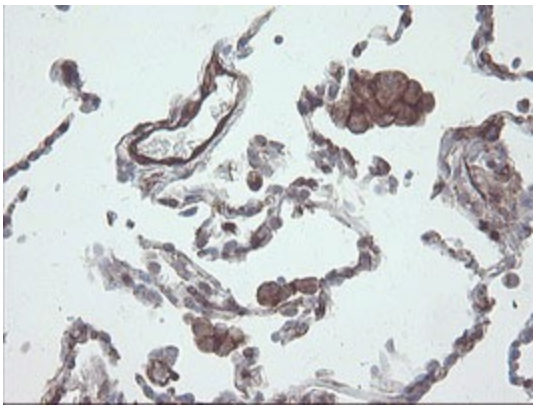


Immunohistochemical staining of paraffin-embedded Carcinoma of Human kidney tissue using anti-PECAM1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, TA505003)



Immunohistochemical staining of paraffin-embedded Human liver tissue within the normal limits using anti-PECAM1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, TA505003)



Immunohistochemical staining of paraffin-embedded Human lung tissue within the normal limits using anti-PECAM1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, TA505003)

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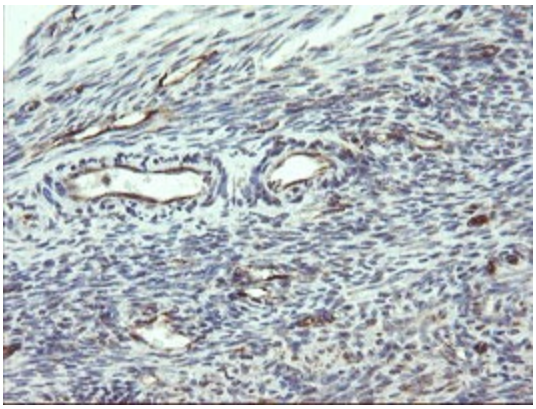
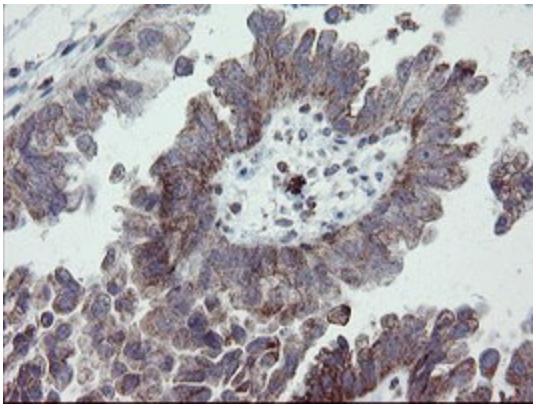
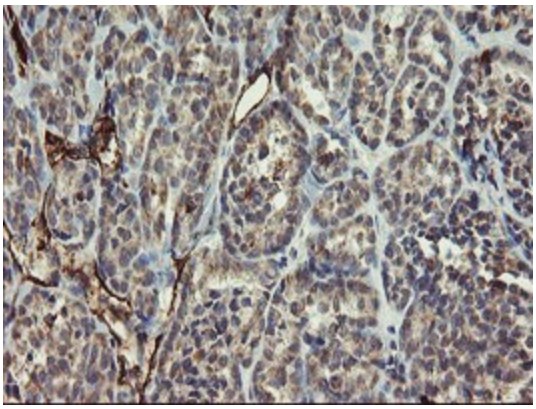


Immunohistochemical staining of paraffin-embedded Human Ovary tissue within the normal limits using anti-PECAM1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, TA505003)



Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human ovary tissue using anti-PECAM1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, TA505003)



Immunohistochemical staining of paraffin-embedded Carcinoma of Human thyroid tissue using anti-PECAM1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, TA505003)

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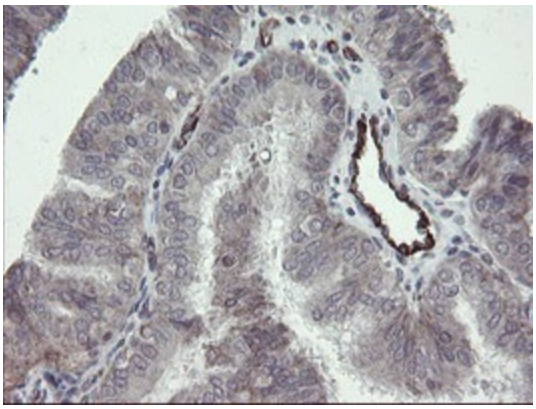
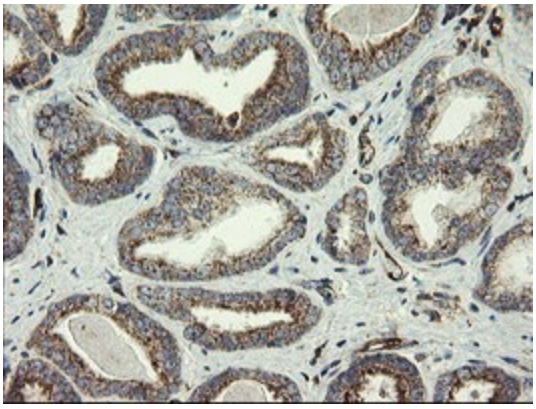
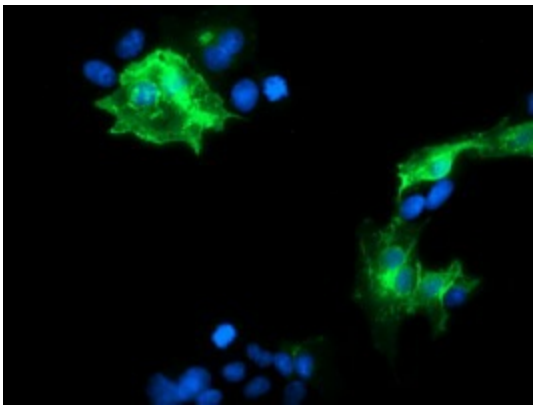


Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human endometrium tissue using anti-PECAM1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, TA505003)



Immunohistochemical staining of paraffin-embedded Carcinoma of Human prostate tissue using anti-PECAM1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, TA505003)



Anti-PECAM1 mouse monoclonal antibody (TA505003) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY PECAM1 ([RC208654]).

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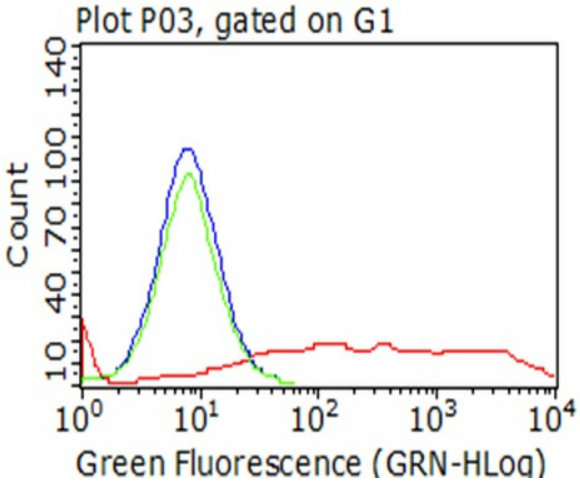


Living HEK293T cells transfected with either [RC208654] plasmid (red) or empty vector (blue) were immunostained by anti-PECAM1 antibody (TA505003) or isotype control antibody (green), and then analyzed by flow cytometry (1:100).

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