

## APC anti-human CD146 Antibody

<b>Catalog# / Size</b>	361015 / 25 tests 361016 / 100 tests
<b>Clone</b>	P1H12
<b>Regulatory Status</b>	RUO
<b>Workshop</b>	HCDM listed
<b>Other Names</b>	Muc-18, MCAM, Mel-CAM, S-endo
<b>Isotype</b>	Mouse IgG1, $\kappa$
<b>Description</b>	CD146 is a 118 kD integral transmembrane glycoprotein that is also known as MUC18, S-Endo, MCAM, and Mel-CAM (melanoma cell adhesion molecule). It belongs to the immunoglobulin superfamily. CD146 is expressed on melanoma cells, epithelial cells, endothelial cells, fibroblasts, activated T cells, multipotent mesenchymal stromal cells, and activated keratinocytes. CD146 mediates heterophilic cell adhesion and regulates monocyte transendothelial migration. The ligand of CD146 remains to be identified.

### Product Details

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<b>Verified Reactivity</b>	Human
<b>Reported Reactivity</b>	Mouse, Dog, Rabbit
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Immunogen</b>	Cultured human umbilical cells
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with APC under optimal conditions.
<b>Concentration</b>	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our <a href="#">Concentration and Expiration Lookup</a> or <a href="#">Certificate of Analysis</a> online tools.)
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">FC - Quality tested</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a> . For flow cytometric staining, the suggested use of this reagent is 5 $\mu$ l per million cells in 100 $\mu$ l staining volume or 5 $\mu$ l per 100 $\mu$ l of whole blood.
<b>Excitation Laser</b>	Red Laser (633 nm)
<b>Application Notes</b>	Additional reported applications (for the relevant formats of this clone) include: Western blotting <sup>3</sup> and IHC <sup>1,5</sup> .  Clone P1H12 cross-reacts to Dog <sup>2,5</sup> .
<b>Application References</b>	<ol style="list-style-type: none"> <li>Solovey A, <i>et al.</i> 1997. <i>N. Engl. J. Med.</i> 337:1584. (FC, IHC)</li> <li>Lamerato-Kozicki AR, <i>et al.</i> 2006. <i>Exp. Hematol.</i> 34:870. (FC)</li> <li>Balint K, <i>et al.</i> 2005. <i>J. Clin. Invest.</i> 115:3166. (WB)</li> <li>Neskey DM, <i>et al.</i> 2008. <i>J. Exp. Clin. Cancer Res.</i> 27:61. (ELISA)</li> <li>Kamstock D, <i>et al.</i> 2006. <i>Cancer Gene Therap.</i> 13:306. (IHC)</li> </ol>

### Product Citations

- Lee JK, *et al.* 2020. *Sci Rep.* 2.567361111. [PubMed](#)
- Di Stefano B, *et al.* 2019. *Cell Stem Cell.* 25:622. [PubMed](#)

**RRID** AB\_2564359 (BioLegend Cat. No. 361015)  
AB\_2564360 (BioLegend Cat. No. 361016)

## Antigen Details

<b>Structure</b>	118 kD integral glycoprotein, Ig superfamily
<b>Distribution</b>	Melanoma cells, epithelial cells, endothelial cells, activated T cells, multipotent mesenchymal stromal cells
<b>Function</b>	Adhesion, monocytes transendothelial migration
<b>Cell Type</b>	Endothelial cells, Epithelial cells, Mesenchymal cells, Mesenchymal Stem Cells, T cells
<b>Biology Area</b>	Cell Biology, Immunology, Innate Immunity, Neuroscience, Neuroscience Cell Markers, Stem Cells
<b>Molecular Family</b>	Adhesion Molecules, CD Molecules
<b>Antigen References</b>	1. Pickl WF, et al. 1997. <i>J. Immunol.</i> 158:2107. 2. Weninger W, et al. 2000. <i>J. Invest. Dermatol.</i> 115:219. 3. Sorrentino A, et al. 2008. <i>Exp. Hematol.</i> 36:1035. 4. Bardin N, et al. 2009. <i>Arterioscler. Thromb. Vasc. Biol.</i> 29:746.
<b>Gene ID</b>	<a href="#">4162</a>

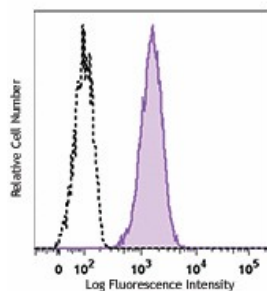
## Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

## Other Formats

PE anti-human CD146, Purified anti-human CD146, Brilliant Violet 421™ anti-human CD146, PE/Cyanine7 anti-human CD146, PerCP/Cyanine5.5 anti-human CD146, FITC anti-human CD146, Alexa Fluor® 647 anti-human CD146, APC anti-human CD146, TotalSeq™-A0134 anti-human CD146, Brilliant Violet 605™ anti-human CD146, Brilliant Violet 510™ anti-human CD146, Alexa Fluor® 488 anti-human CD146, APC/Fire™ 750 anti-human CD146, PE/Dazzle™ 594 anti-human CD146, Brilliant Violet 785™ anti-human CD146, Brilliant Violet 711™ anti-human CD146, PE/Cyanine5 anti-human CD146, Biotin anti-human CD146, TotalSeq™-C0134 anti-human CD146, TotalSeq™-B0134 anti-human CD146 Antibody, APC/Cyanine7 anti-human CD146

## Product Data



Human cervical cancer cell line, HeLa, was stained with CD146 (clone P1H12) APC (filled histogram) or mouse IgG1, κ APC isotype control (open histogram).

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