

## TotalSeq™-A0134 anti-human CD146 Antibody

<b>Catalog# / Size</b>	361017 / 10 µg
<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, κ
<b>Barcode Sequence</b>	CCTTGGATAACATCA
<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

---

<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 1 mM EDTA.
<b>Preparation</b>	The antibody was purified by chromatography and conjugated with TotalSeq™-A oligomer under optimal conditions.
<b>Concentration</b>	0.5 mg/ml
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">PG - Quality tested</a>
<b>Recommended Usage</b>	<p>Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a> and the oligomer sequence is confirmed by sequencing. TotalSeq™-A antibodies are compatible with 10x Genomics Single Cell Gene Expression <a href="#">Solutions</a>.</p> <p>To maximize performance, it is strongly recommended that the reagent be titrated for each application, and that you centrifuge the antibody dilution before adding to the cells at 14,000xg at 2 - 8°C for 10 minutes. Carefully pipette out the liquid avoiding the bottom of the tube and add to the cell suspension. For Proteogenomics analysis, the suggested starting amount of this reagent for titration is ≤ 1.0 µg per million cells in 100 µL volume. Refer to the corresponding TotalSeq™ protocol for specific staining instructions.</p> <p>Buyer is solely responsible for determining whether Buyer has all intellectual property rights that are necessary for Buyer's intended uses of the BioLegend TotalSeq™ products. For example, for any technology platform Buyer uses with TotalSeq™, it is Buyer's sole responsibility to determine whether it has all necessary third party intellectual property rights to use that platform and TotalSeq™ with that platform.</p>
<b>Application Notes</b>	<p>Additional reported applications (for the relevant formats of this clone) include: Western blotting<sup>3</sup> and IHC<sup>1,5</sup>.</p> <p>Clone P1H12 cross-reacts to Dog<sup>2, 5</sup>.</p>

**Additional Product Notes** TotalSeq™ reagents are designed to profile protein levels at a single cell level following an optimized protocol similar to the CITE-seq workflow. A compatible single cell device (e.g. [10x Genomics Chromium System and Reagents](#)) and sequencer (e.g. Illumina analyzers) are required. Please contact [technical support](#) for more information, or visit [biolegend.com/totalseq](#).

The barcode flanking sequences are CCTTGGCACCCGAGAATTCCA (PCR handle), and BAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA\*A\*A (capture sequence). B represents either C, G, or T, and \* indicates a phosphorothioated bond, to prevent nuclease degradation.

View more applications data for this product in our [Scientific Poster Library](#).

#### Application References

1. Solovey A, *et al.* 1997. *N. Engl. J. Med.* 337:1584. (FC, IHC)
2. Lamerato-Kozicki AR, *et al.* 2006. *Exp. Hematol.* 34:870. (FC)
3. Balint K, *et al.* 2005. *J. Clin. Invest.* 115:3166. (WB)
4. Neskey DM, *et al.* 2008. *J. Exp. Clin. Cancer Res.* 27:61. (ELISA)
5. Kamstock D, *et al.* 2006. *Cancer Gene Therap.* 13:306. (IHC)

**RRID** AB\_2750355 (BioLegend Cat. No. 361017)

## 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>	<ol style="list-style-type: none"><li>1. Pickl WF, <i>et al.</i> 1997. <i>J. Immunol.</i> 158:2107.</li><li>2. Weninger W, <i>et al.</i> 2000. <i>J. Invest. Dermatol.</i> 115:219.</li><li>3. Sorrentino A, <i>et al.</i> 2008. <i>Exp. Hematol.</i> 36:1035.</li><li>4. Bardin N, <i>et al.</i> 2009. <i>Arterioscler. Thromb. Vasc. Biol.</i> 29:746.</li></ol>
<b>Gene ID</b>	<a href="#">4162</a>

## Related Protocols

---

[TotalSeq™-A Antibodies and Cell Hashing with 10x Single Cell 3' Reagent Kit v3 3.1 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

For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.

\*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, [www.biolegend.com/ordering#license](#)). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.

BioLegend Inc., 8999 BioLegend Way, San Diego, CA 92121 [www.biolegend.com](http://www.biolegend.com)  
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587