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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

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CEDARLANE[®]
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Conveniently Delivering You Today's Innovations
for the Science of Tomorrow™

**Anti-Mouse CD147
Monoclonal Antibody**

Catalogue#	Format	Size	Concentration	Isotype Control
CL8975AP	Purified	250µg	1.0mg/ml	CLCR100
CL8975AP-BULK	Purified	1.0 mg	1.0 mg/ml	CLCR100
CL8975B	Biotin	100µg	0.1 mg/ml	CLCR115
CL8975F	FITC	100µg	0.1 mg/ml	CLCR101
CL8975PE	PE	50µg	0.1 mg/ml	CLCL104

Isotype: Rat Ig_{G1}

DESCRIPTION:

CD147 is a widely expressed membrane glycoprotein (also known as OX47, basigin, EMMPRIN and HT7; expressed on leukocytes, red cells, platelets and endothelial cells) and has been implicated in matrix metalloproteinase induction, cell adhesion, retinal cell development and T cell activation. The transmembrane region has a very high degree of homology between various species, and is identical between chicken and rat.

Cedarlane's anti-mouse CD147 antibody detects both the two and three Ig-like domain isoforms of the CD147 extracellular region on the surface of transfected HEK293T cells. In Western Blotting, these solubilized cell lysates showed bands at 38 and 50 kDa for domains two and three respectively. This antibody also gave good staining of mouse thymocytes and fixed tissue sections. Only the three domain form interacts homophilically, and this form has only been found in the retina and not in other tissues (ie. brain, lung, liver, spleen). The two domain form associates laterally with the monocarboxylate transport proteins MCT1 and MCT4

PRESENTATION:

Purified: Purified IgG buffered in PBS and 0.02% NaN₃. (Purified from ascitic fluid via Protein G Chromatography). For maximum recovery of contents, spin down tube before use.

Biotin, FITC and PE: Biotin/FITC/PE conjugated IgG buffered in PBS, 0.02% NaN₃ and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml.

STORAGE/STABILITY:

For all formats, store at 4°C. DO NOT FREEZE PE conjugates. For long term storage (**Purified, Biotin and FITC**), aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles.

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registered company.

In CANADA: Toll Free: 1-800-268-5058

4410 Paletta Court, Burlington, ON L7L 5R2 ph: (289) 288-0001, fax: (289) 288-0020
e-mail: general@cedarlanelabs.com

In the USA: Toll Free: 1-800-721-1644

1210 Turrentine Street, Burlington, NC 27215 ph: (336) 513-5135, fax: (336) 513-5138
e-mail: service@cedarlanelabs.com

APPLICATIONS:

This antibody is suitable for use in flow cytometry, Western Blotting and immunohistochemistry.

SPECIFICATIONS:

Clone: OX114

Hybridoma Production:

Immunization: Immunogen: Recombinant md0-2rCD4d3+4

Donor: rat spleen

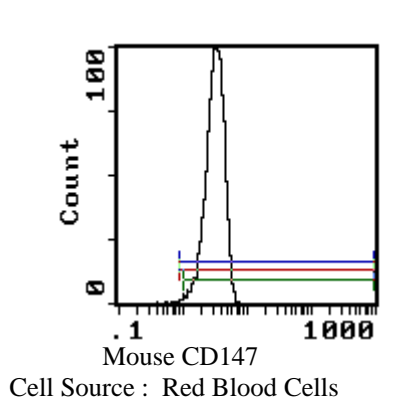
Fusion Partner: Y3 myeloma cells

Specificity: Mouse CD147 (Basigin, EMMPRIN)

TEST RESULTS:

Tissue Distribution by Flow Cytometry Analysis:

<u>Cell Source</u>	<u>Percentage of cells stained above control:</u>
Red Blood Cells	100.0%
Thymus	88.8%



N.B. Appropriate control samples should always be included in any labeling studies.

*** For optimal results in various applications, it is recommended that each investigator determine dilutions appropriate for individual use**

REFERENCES:

1. Hanna, S. M., *et al.* 2003. A novel form of the membrane protein CD147 that contains an extra Ig-like domain and interacts homophilically. *BMC Biochemistry*, 4:17.

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