



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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Technically  
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Conveniently Delivering You Today's Innovations  
for the Science of Tomorrow™

**Anti-Mouse/Rat CD81  
Monoclonal Antibody**

Catalogue#	Format	Size	Concentration	Isotype Control
<b>CL8981AP</b>	Purified	250µg	1.0 mg/ml	CLCHM00
<b>CL8981NA</b>	No Azide	1.0mg	1.0 mg/ml	CLCHM00
<b>CL8981B/-3</b>	Biotin	100µg/300µg	0.1 mg/ml	CLCHM15
<b>CL8981F/-3/-5</b>	FITC	100µg/300µg/500 µg	0.1 mg/ml	CLCHM01
<b>CL8981PE/-3/-4</b>	PE	50µg/300µg /200µg	0.1 mg/ml	CLCHM04
<b>CL8981AF4</b>	Alexa Fluor <sup>®</sup> 488	100 µg	0.1 mg/ml	N/A

Alexa Fluor<sup>®</sup> is a registered trademark of Life Technologies Corporation.

Isotype: Armenian Hamster IgG

**DESCRIPTION:**

Cedarlane's CL8981 reacts with the extracellular loops of murine CD81 (TAPA-1) molecule. As a member of the tetraspanin superfamily of cell-surface proteins, CD81 has been linked to the control of cell proliferation, adhesion and motility. CD81 is expressed in higher levels on resting murine B cells than on resting T cells and is functionally active on B cells as it induces homotypic adhesion of B lymphocytes. Unlike human CD81, which is expressed equally on all thymocytes, murine CD81 is upregulated on CD4<sup>+</sup>CD8<sup>+</sup> thymocytes, then down-regulated again on mature single-positive thymocytes. Murine dendritic cells, splenic macrophages and non-killer cells all express very high levels of CD81. CD81 has also been involved in the induction of IL-4 secretion from T cells during Th2 immune responses. It has been reported that CD81 expression can also be induced in mature T cells upon activation. This anti-CD81 mAb has been shown to decrease the proliferation of LPS stimulated CD81<sup>+/+</sup> B cells to levels similar to that of CD81<sup>-/-</sup> B cells.

**PRESENTATION:**

**Purified:** Purified IgG buffered in PBS and 0.02% NaN<sub>3</sub>. (Purified from ascitic fluid via Protein G Chromatography). For maximum recovery of contents, spin down tube before use.

**Biotin, FITC, PE and AF488:** Biotin/FITC/PE/AF488 conjugated IgG buffered in PBS, 0.02% NaN<sub>3</sub> and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml.

**No Azide:** Purified Ig buffered in PBS, no preservative, 0.2µm sterile filtered.

**STORAGE/STABILITY:**

For all other formats, store at 4°C. DO NOT FREEZ **PE and AF488** conjugates. For long term storage (**Purified, Biotin, NA and FITC**), aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles.

Visit our website for your local distributor.

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**SPECIFICATIONS:**

Clone: Eat2

Immunogen: CD81+ mouse B lymphoma 38C13

Specificity: Mouse CD81 (TAPA-1)

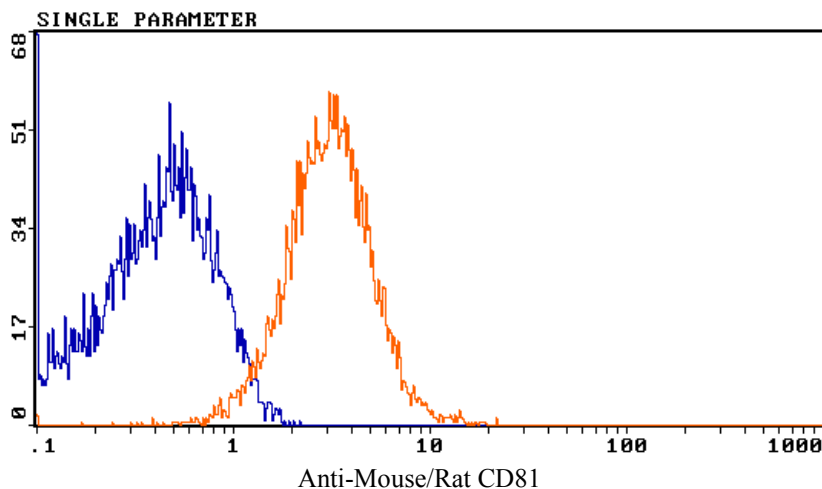
**TEST RESULTS:**

Tissue distribution by Flow Cytometry Analysis:

Mouse Strain: C57BL/6

Cell Concentration: 1 x 10<sup>6</sup> cells per test

Antibody Concentration: 1.0 µg/10<sup>6</sup> cells



Cell Source: Mouse Splenic B Cells\*\*  
Percentage of cells stained above control: 92.7%

\*\* B cells isolated with CL131 – Cedarlane’s Mouse B Cell Recovery Kit

**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. Maecker, H. T., et al., 2000. Differential expression of murine CD81 highlighted by new anti-mouse CD81 monoclonal antibodies. *Hybridoma* 19:15-22.
2. Maecker, H. T., Todd, S. C., and Levy, S, 1997. The tetraspanin superfamily: Molecular facilitators. *Faseb J* 11:428-442.
3. Miyazaki, T., Muller, U. and Campbell, K. S., 1997. Normal development but differentially altered proliferative responses of lymphocytes in mice lacking CD81. *Embo J* 16:4217-4225.

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