



# 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

Quellenstraße 110, A-1100 Wien

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

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

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

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

Technically  
Speaking

**CEDARLANE**<sup>®</sup>  
[www.cedarlanelabs.com](http://www.cedarlanelabs.com)



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

## Purified Mouse anti-CD13 / Aminopeptidase N Monoclonal Antibody

**CLX18AP**

**Lot:**

**Size:** 100 µg

**Clone:** WM15

**Isotype:** Mouse IgG1

**Specificity:** The antibody WM15 recognises the human CD13 cell surface glycoprotein, a 150 kDa molecule expressed on granulocytes, endothelial cells, epithelial cells and myeloid progenitors.

HLDA III; WS Code M 213

HLDA IV; WS Code M 44

HLDA IV; WS Code M 209

HLDA V; WS Code M MA191

**Regulatory Status:** RUO

**Immunogen:** Human AML cells

**Species Reactivity:** Human, Non-Human Primates

**Application:** **Flow Cytometry**  
Recommended Dilution: 5 µg/ml  
**Immunoprecipitation**  
**Immunohistochemistry (frozen sections)**

Functional Application

The antibody WM15 inhibits infection of cells by human coronavirus and inhibits aminopeptidase N activity of the CD13 molecule immunoprecipitates.

**Purity:** > 95% (by SDS-PAGE)

**Purification:** Purified from hybridoma culture supernatant by protein A-affinity chromatography.

**Concentration:** 1 mg/ml

*Continued...*

Visit our website for your local distributor.

**CEDARLANE**<sup>®</sup>



[www.cedarlanelabs.com](http://www.cedarlanelabs.com)

An ISO 9001:2000 and ISO 13485:2003  
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](mailto: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](mailto:service@cedarlanelabs.com)

- Storage Buffer:** Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
- Storage / Stability:** Store at 2-8°C. Do not use after expiration date stamped on vial label. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.
- Background:** CD13 (aminopeptidase N, APN) is a 150 kDa type II transmembrane zinc-binding ectopeptidase expressed on various cell types. This metalloprotease preferentially catalyzes removal of neutral amino acids from small peptides, thus activating or inactivating bioactive peptides. CD13 has also role in extracellular matrix degradation, antigen processing and signal transduction, is important in inflammatory responses, regulates intercellular contact, cell motility and vascularization. CD13 is involved in protection of leukemic cells against apoptosis and its expression associated with poor prognosis of carcinomas.
- References:**
- \*Tokuhara T, Hattori N, Ishida H, Hirai T, Higashiyama M, Kodama K, Miyake M. Clinical significance of aminopeptidase N in non-small cell lung cancer. *Clin Cancer Res.* 2006 Jul 1;12(13):3971-8.
  - \*Petrovic N, Schacke W, Gahagan JR, O'Connor CA, Winnicka B, Conway RE, Mina-Osorio P, Shapiro LH. CD13/APN regulates endothelial invasion and filopodia formation. *Blood.* 2007 Jul 1;110(1):142-50.
  - \*Terauchi M, Kajiyama H, Shibata K, Ino K, Nawa A, Mizutani S, Kikkawa F. Inhibition of APN/CD13 leads to suppressed progressive potential in ovarian carcinoma cells. *BMC Cancer.* 2007 Jul 27;7:140.
  - \*Bradstock KF, Favalaro EJ, Kabral A, Kerr A, Hughes WG, Berndt MC, Musgrove E.: Human myeloid differentiation antigens identified by monoclonal antibodies: expression on leukemic cells. *Pathology.* 1985 Jul;17(3):392-9.
  - \*Bradstock KF, Favalaro EJ, Kabral A, Kerr A, Hughes WG, Musgrove E.: Myeloid progenitor surface antigen identified by monoclonal antibody. *Br J Haematol.* 1985 Sep;61(1):11-20.
  - \*Leukocyte Typing III., McMichael A.J. et al. (Eds.), Oxford University Press (1987).
  - \*Leukocyte Typing IV., Knapp W. et al. (Eds.), Oxford University Press (1989).
  - \*Favalaro EJ, Browning T, Facey D.: CD13 (GP150; aminopeptidase-N): predominant functional activity in blood is localized to plasma and is not cell-surface associated. *Exp Hematol.* 1993 Dec;21(13):1695-701.
  - \*Leukocyte Typing V., Schlossman S. et al. (Eds.), Oxford University Press (1995).

**Laboratory Reagent For Research Use Only**