



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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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) 



## Mouse anti Integrin beta 4 (CD104)

Catalogue number: **MUB0909P**

Clone	58XB4
Isotype	IgG2a
Product Type	Primary Antibodies
Units	0.1 mg
Host	Mouse (Balb/c)
Species reactivity	Human
Application	ELISA Flow cytometry Immunoblotting Immunocytochemistry Immunofluorescence Immunohistochemistry (frozen) Immunoprecipitation

## Distributors

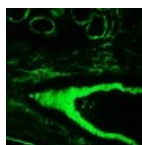
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### Background

Integrins are a family of heterodimeric membrane glycoproteins consisting of non-covalently associated  $\alpha$  and  $\beta$  subunits. More than 18  $\alpha$  and 8  $\beta$  subunits with numerous splice variant isoforms have been identified in mammals. In general, integrins function as receptors for extracellular matrix proteins. Certain integrins can also bind to soluble ligands or to counter-receptors on adjacent cells, such as the intracellular adhesion molecules (ICAMs), resulting in aggregation of cells. Signals transduced by integrins play a role in many biological processes, including cell growth, differentiation, migration and apoptosis. CD104 is a 205kD type I transmembrane glycoprotein, also known as beta 4 integrin. CD104 associates with CD49f (integrin alpha 6) forming a heterodimer. CD104 is expressed on epithelial cells (especially on the proliferative basal cells in skin), endothelial cells, Schwann cells, certain tumor cells and a subset of pre-T cells. CD49f/CD104 is an adhesion receptor for laminins (especially laminin 5) and keratin filaments and is involved in the regulation of

1\_MUB0909 Figure 1  
Immunohistochemistry on frozen section of human skin showing strong staining of basal membrane (e.g. cells of sebaceous gland and sweat gland and cells forming the hair in the hair shaft) and conn



hemidesmosome formation.

**Source**

58XB4 is a monoclonal antibody obtained by immunization of Balb/c mice with Integrin  $\beta$ 4. The immunogen used to raise this antibody was the full length CD104 protein.

**Product**

Each vial contains 100  $\mu$ l 1 mg/ml purified monoclonal antibody in PBS containing 0.09% sodium azide.

**Applications**

58XB4 is useful for Enzyme Linked Immuno Sorbent Assays (ELISA), Flow Cytometry, Immunofluorescence, Immunoprecipitation, Western blotting, immunocytochemistry of paraformaldehyde fixed cells and Immunohistochemistry on frozen sections. For protocols see reference 1. Optimal antibody dilution should be determined by titration.

**Specificity**

Binds specifically to integrin  $\beta$ 4 chain (CD104) or  $\beta$ 4 integrin, that associates with integrin  $\alpha$ 6 (CD49f) forms  $\alpha$ 6/ $\beta$ 4 (CD49f/CD104) heterodimer. CD104 is expressed on epithelial cells (especially on the proliferative basal layer epithelial cells in skin), endothelial cells, Schwann cells, certain tumor cells and a subset of pre-T cells.

**Storage**

Store at 4°C, or in small aliquots at -20°C.

**References**

1. Dirk Geerts, Lionel Fontao, Mirjam G. Nievers, Roel Q.J. Schaapveld, Patricia E. Purkis, Grant N. Wheeler, E. Birgitte Lane, Irene M. Leigh, and Arnoud Sonnenberg. J Cell Biol. 1999 October 18; 147(2): 417-434.

**Caution**

This product is intended FOR RESEARCH USE ONLY, and FOR TESTS IN VITRO, not for use in diagnostic or therapeutic procedures involving humans or animals. This product contains sodium azide. To prevent formation of toxic vapors, do not mix with strong acidic solutions. To prevent formation of potentially explosive metallic azides in metal plumbing, always wash into drain with copious quantities of water. This datasheet is as accurate as reasonably achievable, but Nordic-MUBio accepts no liability for any inaccuracies or omissions in this information.

