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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) 



Mouse anti E-Cadherin / Cadherin-1

nordicmubio.com/product/mouse-anti-e-cadherin-cadherin-1-4

Catalogue number: **MUB0304P**

Clone	SEC21
Isotype	IgG1
Product Type	Primary Antibodies
Units	100 µl 1mg/ml
Host	Mouse

Background

Cadherins constitute a family of transmembrane glycoproteins involved in Ca²⁺-dependent cell-cell interactions. The members of this family are differentially expressed in various tissues. They function in the maintenance of tissue integrity and morphogenesis. Cadherins are divided into type I and type II subgroups. Type I cadherins include epithelial cadherin (E-cadherin, cadherin-1 or uvomorulin), neural cadherin (N-cadherin or cadherin-2), placental cadherin (P-cadherin or cadherin-3) and retinal cadherin (R-cadherin or cadherin-4), whereas kidney cadherin (K-cadherin or cadherin-6) and osteoblast cadherin (OB-cadherin or cadherin-11) are type II cadherins. One of the best characterized cadherins is E-cadherin, a 120 kD transmembrane glycoprotein consisting of an 80 kD extracellular and a 40 kD transmembrane and cytoplasmic part. The extracellular domains of E-cadherin are responsible for calcium binding which allows for homophilic interaction with other E-cadherin molecules on the same cell and neighbouring cells. In addition, E-cadherin can interact heterophilically with integrin $\alpha\beta$ 7. The cytoplasmic domain of E-cadherin is linked to the actin cytoskeleton through the associated cytoplasmic Catenin proteins, thus establishing a complex localized to adherens junctions. In carcinomas E-cadherin is frequently downregulated, which is consistent with its function of an invasion suppressor in normal epithelia.

Source

SEC21 is a mouse monoclonal IgG1 antibody obtained by fusion of NS0 mouse myeloma cells with spleen cells from a mouse immunized with the synthetic peptide corresponding to amino acids 30-43 of mature human E-cadherin coupled to keyhole limpet hemocyanin.

Product

Each vial contains 100 µl ProtG purified antibody at a concentration of 1 mg/ml in PBS pH 7.4, containing 0.09% sodium azide.

Specificity

SEC21 recognizes both the 120 kD E-cadherin and its 80 kD trypsin-resistant extracellular part. The epitope is present within amino acid residues 30-43 of mature Human E-cadherin.

Applications

SEC21 is suitable for immunoblotting. Optimal antibody dilution should be determined by titration; recommended range is 1:50 - 1:250.

Storage

The antibody is shipped at ambient temperature and may be stored at +4°C. For prolonged storage prepare appropriate aliquots and store at or below -20°C. Prior to use, an aliquot is thawed slowly in the dark at ambient temperature, spun down again and used to prepare working dilutions by adding sterile phosphate buffered saline (PBS, pH 7.2). Repeated thawing and freezing should be avoided. Working dilutions should be stored at +4°C, not refrozen, and preferably used the same day. If a slight precipitation occurs upon storage, this should be removed by centrifugation. It will not affect the performance or the concentration of the product.

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.

References

1. No references available