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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 Melanoma Associated Antigen

Catalogue number: **MUB1209P**

Clone	NKI-Beteb
Isotype	IgG2b
Product Type	Primary Antibodies
Units	0.1 mg
Host	Mouse
Species reactivity	Human
Application	Immunohistochemistry (frozen) Immunohistochemistry (paraffin)

Background

The mammalian members of the MAGE (melanoma-associated antigen) gene family were originally described as completely silent in normal adult tissues, with the exception of male germ cells and, for some of them, placenta. By contrast, these genes were expressed in various kinds of tumors. MAGE-like genes have also been identified in non-mammalian species, like the zebrafish or *Drosophila melanogaster*. Although no MAGE homologous sequences have been identified in *Caenorhabditis elegans*, *Saccharomyces cerevisiae* or *Schizosaccharomyces pombe*, MAGE sequences have been found in several vegetal species, including *Arabidopsis thaliana*. The only region of homology shared by all of the members of the family is a stretch of about 200 amino acids which has been named the MAGE conserved domain. The MAGE conserved domain is usually located close to the C-terminal, although it can also be found in a more central position in some proteins. The MAGE conserved domain is generally present as a single copy but it is duplicated in some proteins. It has been proposed that the MAGE conserved domain of MAGE-D proteins might interact with p75 neurotrophin or related receptors. The function of this protein is not known, though may play a role in embryonal development and tumor transformation or aspects of tumor progression. Antigen recognized on a melanoma by autologous cytolytic T-lymphocytes. The Melanoma-associated antigen is expressed in many tumors of several types, such as melanoma, head and neck squamous cell carcinoma, lung carcinoma and breast carcinoma, but not in normal tissues except for testes and placenta. Never expressed in kidney tumors, leukemias and lymphomas.

Source

Distributors

For Purchasing Information, please contact your local distributor

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NKI-Beteb is a Mouse monoclonal IgG2b antibody derived by fusion of SP2/0 Mouse myeloma cells with spleen cells from a Balb/c mice immunized with a smooth membrane fraction of a lymph node metastasis of melanoma.

Product

Each vial contains 100 ul 1 mg/ml purified monoclonal antibody in PBS containing 0.09% sodium azide.

Applications

NKI-Beteb is useful for immunohistochemistry on frozen and paraffin embedded sections. Optimal antibody dilution should be determined by titration.

Specificity

NKI-Beteb reacts with Melanoma Associated Antigen, a glycoprotein of 100 + 7 kDa. Melanoma associated antigen (MAA) is dispersed in the cytoplasm of melanoma cells, and is more concentrated inside vacuoles and sometimes on the melanosomes. Occasionally the antigen is seen on the cell surface. The antigen is actively shed from living cells. Melanoma Associated Antigen 100 + 7 kDa is present in melanomas, clear cell sarcomas (melanoma of soft tissue), nevocellular nevi, and normal melanocytes. Except for one case of non Hodgkin's lymphoma in which macrophages were positive, the antigen has not been detected with other tumors or tissues observed. The antibody reacts with melanomas, clear cell sarcomas (melanoma of soft tissue), nevocellular nevi, and normal melanocytes. The antibody reacts with melanomas, clear cell sarcomas (melanoma of soft tissue), nevocellular nevi, and normal melanocytes.

Storage

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

References

1. Vennegoor C. et al.(1988), Am.J. Pathol. 130: 179-192.

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.