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- Diagnostik & molekulare Diagnostik
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Nordic MUbio

Mouse anti Melanoma Associated Antigen

Catalogue number: **MUB1205P**

Clone	NKI-C3
Isotype	IgG1
Product Type	Primary Antibodies
Units	0.1 mg
Host	Mouse
Species reactivity	Human
Application	ELISA Immunofluorescence 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.

Distributors

For Purchasing Information, please contact your local distributor

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Source
NKI-C3 is a Mouse monoclonal IgG1 antibody derived by fusion of SP2/0 Mouse myeloma cells with spleen cells from a Balb/c mice, immunized with a predominantly intracellular protein of Human melanoma cells.

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

Applications
NKI-C3 is useful for ELISA, immunofluorescence and immuohistochemistry on frozen and paraffin embedded sections. Optimal antibody dilution should be determined by titration.

Specificity
NKI/C-3 is a MAb which is directed anti a predominantly intracellular protein of Human melanoma cells. The antigen is abundantly present in malignant melanomas, nevocellular nevi, and neuroendocrine tumors, whereas it has not been detectable in most other tissues. The antigen recognized by NKI/C-3 is a glycoprotein which appears as a broad band in SDS-PAGE. The antigen was shown to consist of a single protein backbone to which two or three .V-linked glycans were added cotranslationally. Extensive further heterogeneity was geneRated in the Golgi compartment and was shown to be dependent on the presence of complex type sugars. Although the antigen is associated with melanomas, it was not codistributed with the tyrosinase activity associated with melanogenesis. The antigen did show codistribution with Cathepsin D, which is a marker for lysosomal functions. NKI/C3 originally was described as a marker for melanoma. Recently, it resurfaced as a marker to sepaRate cellular neurothekeoma from other dermal tumors in the differential diagnosis.

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

References
1. C. Vennegoor et al., Int. J. Cancer 35: 287-295, 1985.
2. A.A. Palmer et al., Pathology 17: 335-339, 1985. 3.E.C.
3. Hagen et al., Histopathology 10: 689-700, 1986.

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.