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Diagnostik & molekulare Diagnostik



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Zuschläge

- Mindermengenzuschlag
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- Expressversand

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Mouse anti TBX-2

Catalogue number: **MUB2005P**

Clone	4D6
Isotype	IgG1
Product Type	Primary Antibodies
Units	0.1 mg
Host	Mouse (Balb/c)
Species reactivity	Human
Application	Immunoblotting Immunoprecipitation

Distributors

For Purchasing Information, please contact your local distributor

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Background

T-box transcription factor TBX2 is a protein that in Humans is encoded by the TBX2 gene and with subcellular location in the nucleus. This gene is a member of a phylogenetically conserved family of genes that share a common DNA-binding domain, the T-box. T-box genes encode transcription factors involved in the regulation of developmental processes. This gene product is the Human homolog of Mouse Tbx2, and shares strong sequence similarity with Drosophila omb protein. Expression studies indicate that this gene may have a potential role in tumorigenesis as an immortalizing agent. Transcript heterogeneity due to alternative polyadenylation has been noted for this gene. In melanocytic cell types, expression of the T-box 2 gene is regulated by the Microphthalmia-associated transcription factor. The oncogene TBX2 is a cooperating factor in transformation of p53/p21CIP1 pathway deficient MEFs. TBX2 downregulates the p53/p21CIP1 pathway both in wild-type and p53/p21CIP1 deficient MEFs. Tissue specificity: expressed primarily in adult in kidney, lung, and placenta. Weak expression in heart and ovary.

Source

4D6 is a Mouse monoclonal IgG1 antibody derived by fusion of SP2/0 Mouse myeloma cells with spleen cells from a BALB/c Mouse immunized with a GST fusion protein corresponding to residues 554-702 of Human TBX2.

Product

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

Applications

4D6 is useful for immunoprecipitation and western blot. Optimal

antibody dilution should be determined by titration.

Storage

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

References

1. Jacqueline J.L. Jacobs, Petra Keblusek, Els Robanus-Maandag, Petra Kristel, Merel Lingbeek, Petra M. Nederlof, Tibor van Welsem, Marc J. van de Vijver, Eugene Y. Koh, George Q. Daley & Maarten van Lohuizen. Senescence bypass screen identifies TBX2, which represses Cdkn2a (p19ARF) and is amplified in a subset of Human breast cancers. Nat. Genet., 26: 291-9 (2000).

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.