

Mouse Anti-PAX3 [C2]: MC0330

Intended Use: For Research Use Only

Description: PAX3 (Paired Box 3) is a member of the paired box (PAX) family of transcription factors involved in development of the peripheral nervous system, melanocytes, some vascular smooth muscle, and a number of other derivatives. It regulates neurogenesis in pre-migratory neural crest cells from the dorsal neural tube, and in myogenic progenitors in the presomitic mesoderm and the hypaxial somites. Members of the PAX family typically contain a paired box domain and a paired-type homeodomain. These genes play critical roles during fetal development. Mutations in paired box gene 3 are associated with Waardenburg syndrome, craniofacial-deafness-hand syndrome, and alveolar rhabdomyosarcoma. The translocation t(2;13)(q35;q14), which represents a fusion between PAX3 and the forkhead gene, is a frequent finding in alveolar rhabdomyosarcoma. Alternative splicing results in transcripts encoding isoforms with different C-termini.

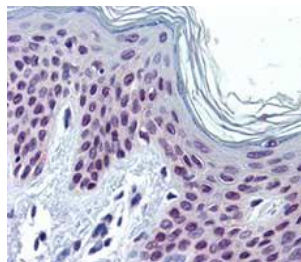
Specifications

Clone: C2
 Source: Mouse
 Isotype: IgG2a
 Reactivity: Human, amphibian, chicken, fish, mouse, quail, rat, zebrafish
 Localization: Nucleus
 Formulation: Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN₃)
 Storage: Store at 2°- 8°C
 Applications: IHC, Flow Cyt., IF, IP, WB
 Package:

Description	Catalog No.	Size
PAX3 Concentrated	MC0330	1 ml

IHC Procedure*

Positive Control Tissue: Esophageal carcinoma, brain tissues, colon carcinoma lysates
 Concentrated Dilution: 10-100
 Pretreatment: Citra pH6.0 or EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°C- 99°C
 Incubation Time and Temp: 30-60 minutes @ RT
 Detection: Refer to the detection system manual
 * Result should be confirmed by an established diagnostic procedure.



FFPE human skin stained with anti-PAX3 using DAB

References:

1. PAX3 Is Extensively Expressed in Benign and Malignant Tissues of the Melanocytic Lineage in Humans, Shujie He et al. J. of Investigative Dermatology. Volume 130, Issue 5, Pages 1465–1468, 2010.
2. PAX3 Expression in Normal Skin Melanocytes and Melanocytic Lesions (Naevi and Melanomas). Sandra Medic et al. PLoS One. 5(4): e9977, 2010.
3. Mir193b-365 is essential for brown fat differentiation. Sun L, et al. Nat Cell Biol 13:958-65, 2011.
4. Wnt5A regulates expression of tumor-associated antigens in melanoma via changes in signal transducers and activators of transcription 3 phosphorylation. Dissanayake SK, et al. Cancer Res 68:10205-14, 2008.

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