

Mouse Anti-PAX7 [SPM613]: MC0984, MC0984RTU7

Intended Use: For Research Use Only

Description: The Pax gene family of nuclear transcription factors is comprised of nine members that function during embryogenesis to regulate the temporal and position-dependent differentiation of cells. In addition, the family is involved in a variety of signal transduction pathways in the adult organism. Mutations in the Pax family of proteins have been linked to disease and cancer in humans. Pax7 is a protein specifically expressed in cultured satellite cell-derived myoblasts. In situ hybridization reveals that Pax7 is also expressed in satellite cells residing in adult muscle. A chromosomal aberration in the gene encoding Pax-7 causes rhabdomyosarcoma 2 (RMS2) (also called alveolar rhabdomyosarcoma).

Specifications:

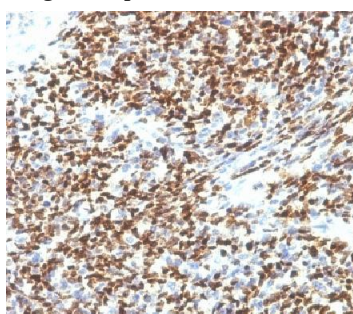
Clone:	SPM613
Source:	Mouse
Isotype:	IgG1k
Reactivity:	Human
Immunogen:	Recombinant fragment aa 300 of human PAX7 protein C-terminus
Localization:	Nucleus
Formulation:	Antibody in PBS pH7.4, containing BSA and $\leq 0.09\%$ azide (NaN ₃)
Storage:	Store at 2°- 8°C
Applications:	IHC
Package:	

Description	Catalog No.	Size
PAX7 Concentrated	MC0984	1 ml
PAX7 Prediluted	MC0984RTU7	7 ml

IHC Procedure*:

Positive Control Tissue:	Rhabdomyosarcoma, testicular carcinoma, ovarian serous carcinoma
Concentrated Dilution:	50-200
Pretreatment:	Tris EDTA pH9.0, 15 minutes Pressure Cooker or 30-60 minutes water bath at 95°-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 rhabdomyosarcoma tissue stained with anti-PAX7 using DAB

References:

1. Rhabdomyosarcoma: current challenges and their implications for developing therapies. Hettmer S, et al. Cold Spring Harb Perspect Med. Nov 3;4(11):a025650, 2014.
2. Detection of PAX3/PAX7-FKHR fusion transcripts in rhabdomyosarcoma and other small round cell tumors by 1-step reverse transcriptase polymerase chain reaction: a novel tool for diagnosis and differentiation. Yang XL, et al. Ann Diagn Pathol. 2012 Apr;16(2):107-11, 2012.
3. C2C12 myoblastoma cell differentiation and proliferation is stimulated by androgens and associated with a modulation of myostatin and Pax7 expression. Diel P, et al. J Mol Endocrinol. May;40(5):231-41, 2008.