

# PAX7 (Rhabdomyosarcoma Marker) Antibody - With BSA and Azide

Mouse Monoclonal Antibody [Clone SPM613 ]

Catalog # AH12043

## Product Information

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<b>Application</b>	IHC
<b>Primary Accession</b>	<a href="#">P23759</a>
<b>Other Accession</b>	<a href="#">5081</a> , <a href="#">113253</a>
<b>Reactivity</b>	Human
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype</b>	Mouse / IgG1, kappa
<b>Clone Names</b>	SPM613
<b>Calculated MW</b>	55119

## Additional Information

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<b>Gene ID</b>	5081
<b>Other Names</b>	Paired box protein Pax-7, HuP1, PAX7, HUP1
<b>Application Note</b>	IHC~~1:100~500
<b>Storage</b>	Store at 2 to 8°C.Antibody is stable for 24 months.
<b>Precautions</b>	PAX7 (Rhabdomyosarcoma Marker) Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	PAX7
<b>Synonyms</b>	HUP1
<b>Function</b>	Transcription factor that is involved in the regulation of muscle stem cells proliferation, playing a role in myogenesis and muscle regeneration.
<b>Cellular Location</b>	Nucleus {ECO:0000250 UniProtKB:P47239}.

## Background

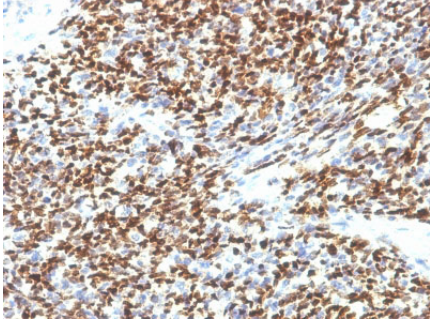
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The Pax gene family of nuclear transcription factors is comprised of nine members that function during embryogenesis to regulate the temporal and position-dependent differentiation of cells. In addition, the

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. Pax-7 is a protein specifically expressed in cultured satellite cell-derived myoblasts. In situ hybridization reveals that Pax-7 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).

## Images

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Formalin-fixed, paraffin-embedded human Rhabdomyosarcoma stained with PAX7 Monoclonal Antibody (SPM613).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.