

# Anti-PAX7 (Rhabdomyosarcoma Marker) Antibody

Mouse Monoclonal Antibody

Catalog # AH13421

## Product Information

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<b>Application</b>	WB, IF, FC
<b>Primary Accession</b>	<a href="#">P23759</a>
<b>Other Accession</b>	<a href="#">113253</a>
<b>Reactivity</b>	Human, Mouse, Zebrafish
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype</b>	Mouse / IgG1, kappa
<b>Clone Names</b>	PAX7/497
<b>Calculated MW</b>	55119

## Additional Information

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<b>Gene ID</b>	5081
<b>Other Names</b>	HUP1; Paired box gene 7; Paired box homeotic gene 7; Paired domain gene HuP1; PAX7 transcriptional factor; PAX7/FKHR fusion gene; PAX7B; RMS2
<b>Application Note</b>	Immunofluorescence (0.5-1ug/ml); ,Flow Cytometry (0.5-1ug/million cells); ,Western Blotting (0.5-1ug/ml),Optimal dilution for a specific application should be determined.
<b>Format</b>	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
<b>Storage</b>	Store at 2 to 8°C.Antibody is stable for 24 months.
<b>Precautions</b>	Anti-PAX7 (Rhabdomyosarcoma Marker) Antibody 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}.

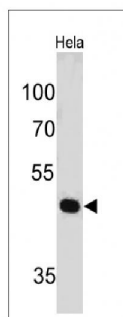
## Background

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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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Western Blot of HeLa Cell Lysate using PAX7 Monoclonal Antibody (PAX7/497).

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