

Pax-7 (6290C1a): sc-130019

BACKGROUND

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).

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: PAX7 (human) mapping to 1p36.13.

SOURCE

Pax-7 (6290C1a) is a mouse monoclonal antibody raised against a recombinant protein corresponding to an internal region of Pax-7 of human origin.

PRODUCT

Each vial contains 100 µg IgG₁ in 1.0 ml of PBS with < 0.1% sodium azide and 1.0% stabilizer protein.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

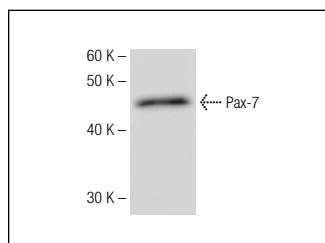
APPLICATIONS

Pax-7 (6290C1a) is recommended for detection of Pax-7 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)].

Suitable for use as control antibody for Pax-7 siRNA (h): sc-38749, Pax-7 siRNA (h2): sc-43997, Pax-7 shRNA Plasmid (h): sc-38749-SH, Pax-7 shRNA Plasmid (h2): sc-43997-SH, Pax-7 shRNA (h) Lentiviral Particles: sc-38749-V and Pax-7 shRNA (h2) Lentiviral Particles: sc-43997-V.

Molecular Weight of Pax-7: 57 kDa.

DATA



Pax-7 (6290C1a): sc-130019. Western blot analysis of human recombinant Pax-7 fusion protein.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.



See **Pax (D-7): sc-514352** for Pax antibody conjugates, including AC, HRP, FITC, PE, Alexa Fluor® 488 and Alexa Fluor® 647.