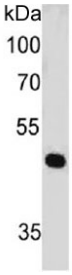
PAX7 Antibody [clone PAX7/497] (V2217)

Catalog No.	Formulation	Size
V2217-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2217-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2217SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Species Reactivity	Human, Mouse, Rat
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	PAX7/497
Purity	Protein G affinity chromatography
Buffer	1X PBS, pH 7.4
Gene ID	5081
Localization	Nuclear
Applications	Immunofluorescence: 0.5-1ug/ml Flow cytometry: 0.5-1ug/10^6 cells Western blot: 0.5-1ug/ml
Limitations	This **PAX7 antibody** is available for research use only.



Western blot testing of human HeLa cell lysate with PAX7 antibody (clone PAX7/497). PAX7 (~55 kDa predicted) was detected as a single band near ~50 kDa, consistent with the unphosphorylated form of PAX7. Other antibodies targeting different epitopes often detect additional slower-migrating species (~65 kDa) corresponding to phosphorylated PAX7.

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 PAX7 causes rhabdomyosarcoma 2 (RMS2) (also called alveolar rhabdomyosarcoma).

For additional information on PAX7 and its use in studying muscle stem and progenitor cell populations, see our PAX7 Antibody page.

Application Notes

The concentration stated for each application is a general starting point. Variations in protocols, secondaries and substrates may require the antibody to be titered up or down for optimal performance.

Immunogen

Recombinant human PAX7 protein corresponding to amino acids 301-505 was used as the immunogen for this antibody.

Storage

Store the PAX7 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

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