10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

PAX3 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO2314a

Product Information

Application	WB, E
Primary Accession	P23760
Reactivity	Human, Mouse
Host	Mouse
Clonality	Monoclonal
Clone Names	7D8G7
Isotype	IgG1
Calculated MW	52968
Description	This gene is a member of the paired box (PAX) family of transcription factors. Members of the PAX family typically contain a paired box domain and a paired-type homeodomain. These genes play critical roles during fetal development. Mutations in paired box gene 3 are associated with Waardenburg syndrome, craniofacial-deafness-hand syndrome, and alveolar rhabdomyosarcoma. The translocation t(2;13)(q35;q14), which represents a fusion between PAX3 and the forkhead gene, is a frequent finding in alveolar rhabdomyosarcoma. Alternative splicing results in transcripts encoding isoforms with different C-termini.
Immunogen	Purified recombinant fragment of human PAX3 (AA: 142-203) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide

Additional Information

Gene ID	5077
Other Names	Paired box protein Pax-3, HuP2, PAX3, HUP2
Dilution	WB~~1/500 - 1/2000 E~~1/10000
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	PAX3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PAX3

Synonyms	HUP2
Function	Transcription factor that may regulate cell proliferation, migration and apoptosis. Involved in neural development and myogenesis. Transcriptional activator of MITF, acting synergistically with SOX10 (PubMed:21965087).
Cellular Location	Nucleus.

References

1. Cell Death Differ. 2012 Apr;19(4):616-22. 2. Biochem Biophys Res Commun. 2011 Aug 12;411(4):832-7.

Images

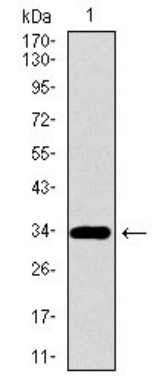


Figure 1: Western blot analysis using PAX3 mAb against human PAX3 recombinant protein. (Expected MW is 32.6 kDa)

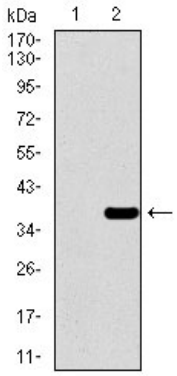


Figure 2: Western blot analysis using PAX3 mAb against HEK293 (1) and PAX3 (AA: 142-203)-hIgGFc transfected HEK293 (2) cell lysate.

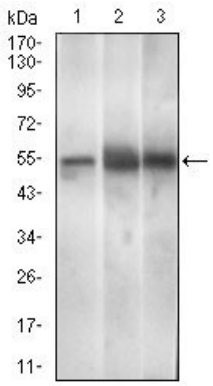


Figure 3: Western blot analysis using PAX3 mouse mAb against Mouse brain (1), Rat spleen (2), Mouse liver (3) cell lysate.

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