

PAX3 Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO2314a**Specification****PAX3 Antibody - Product Information**

Application	E, WB
Primary Accession	P23760
Reactivity	Human, Mouse
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	53kDa KDa

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

PAX3 Antibody - Additional Information

Gene ID 5077

Other Names

Paired box protein Pax-3, HuP2, PAX3, HUP2

Dilution

E~~1/10000

WB~~1/500 - 1/2000

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.

PAX3 Antibody - 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).

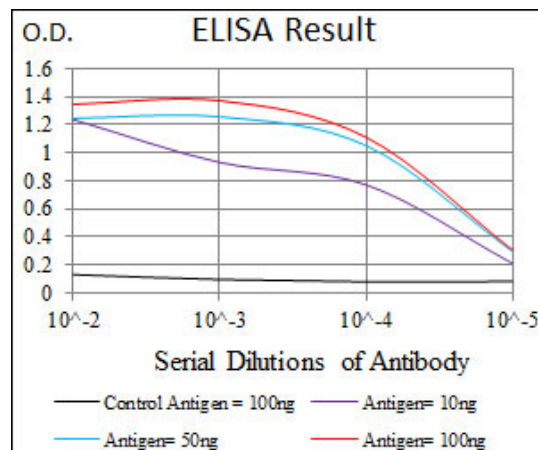
Cellular Location

Nucleus.

PAX3 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)



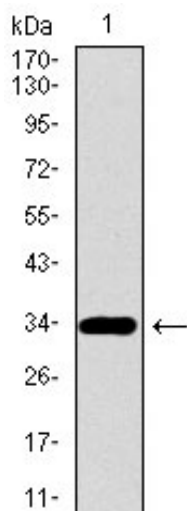


Figure 1: Western blot analysis using PAX3 mAb against human PAX3 recombinant protein. (Expected MW is 32.6 kDa)

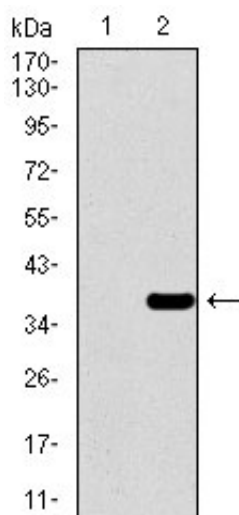


Figure 2: Western blot analysis using PAX3 mAb against HEK293 (1) and PAX3 (AA: 142-203)-hIgGFc transfected HEK293 (2) cell lysate.

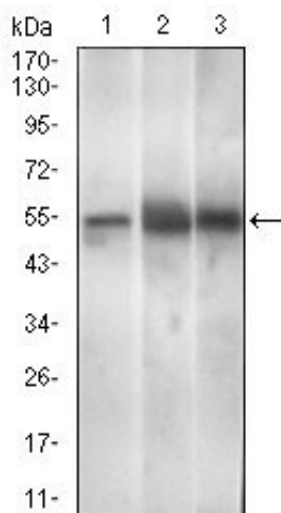


Figure 3: Western blot analysis using PAX3 mouse mAb against Mouse brain (1), Rat spleen (2), Mouse liver (3) cell lysate.

PAX3 Antibody - References

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