

**PAX3 Antibody**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO2314a**

**Specification**

**PAX3 Antibody - Product Information**

Application	E, WB
Primary Accession	<a href="#">P23760</a>
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:<a href="http://www.uniprot.org/citations/21965087" target="\_blank">21965087</a>).

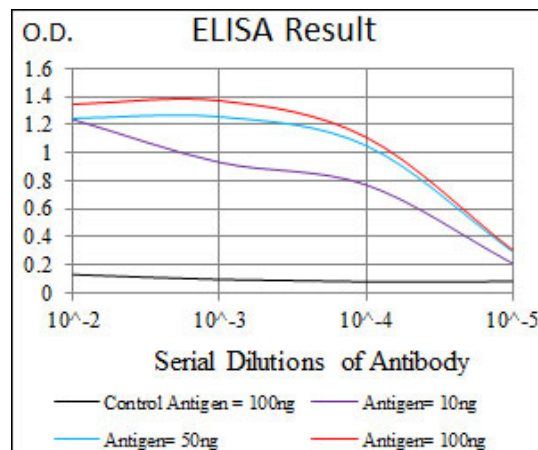
**Cellular Location**

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](#)



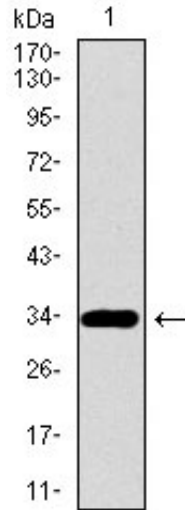


Figure 1: Western blot analysis using PAX3 mAb against human PAX3 recombinant protein. (Expected MW is 32.6 kDa)

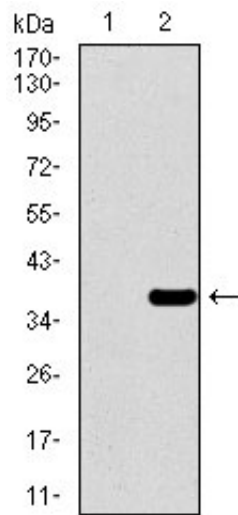


Figure 2: Western blot analysis using PAX3 mAb against HEK293 (1) and PAX3 (AA: 142-203)-hIgGFc transfected HEK293 (2) cell lysate.

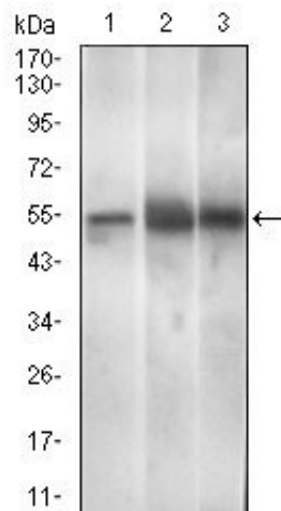


Figure 3: Western blot analysis using PAX3 mouse mAb against Mouse brain (1), Rat spleen (2), Mouse liver (3) cell lysate.

**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.