

# PAX4 Antibody

Purified Mouse Monoclonal Antibody

Catalog # AO1507a

## Product Information

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<b>Application</b>	WB, E
<b>Primary Accession</b>	<a href="#">O43316</a>
<b>Reactivity</b>	Human
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Clone Names</b>	3C12
<b>Isotype</b>	IgG1
<b>Calculated MW</b>	37833
<b>Description</b>	This gene is a member of the paired box (PAX) family of transcription factors. Members of this gene family typically contain a paired box domain, an octapeptide, and a paired-type homeodomain. These genes play critical roles during fetal development and cancer growth. The paired box 4 gene is involved in pancreatic islet development and mouse studies have demonstrated a role for this gene in differentiation of insulin-producing beta cells.
<b>Immunogen</b>	Purified recombinant fragment of human PAX4 expressed in E. Coli.
<b>Formulation</b>	Ascitic fluid containing 0.03% sodium azide.

## Additional Information

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<b>Other Names</b>	Paired box protein Pax-4, PAX4
<b>Dilution</b>	WB~~1/500 - 1/2000 E~~1/10000
<b>Storage</b>	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.
<b>Precautions</b>	PAX4 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	PAX4
<b>Function</b>	Plays an important role in the differentiation and development of pancreatic islet beta cells. Transcriptional repressor that binds to a common element in the glucagon, insulin and somatostatin promoters. Competes with PAX6 for this same promoter binding site. Isoform 2 appears to be a dominant

negative form antagonizing PAX4 transcriptional activity.

**Cellular Location**

Nucleus.

## References

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1. PLoS One. 2008 Mar 12;3(3):e1783. 2. Diabetes Res Clin Pract. 2008 Sep;81(3):365-9.

## Images

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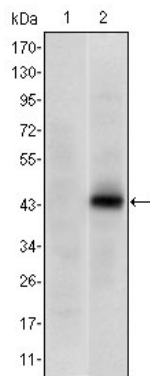


Figure 1: Western blot analysis using PAX4 mAb against HEK293 (1) and PAX4(AA: 105-232)-hIgGfc transfected HEK293 (2) cell lysate.

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