

PAX4 Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1507a**Specification****PAX4 Antibody - Product Information**

Application	E, WB
Primary Accession	O43316
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	38kDa KDa

Description

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.

Immunogen

Purified recombinant fragment of human PAX4 expressed in E. Coli.

Formulation

Ascitic fluid containing 0.03% sodium azide.

PAX4 Antibody - Additional Information**Other Names**

Paired box protein Pax-4, PAX4

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

PAX4 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

PAX4 Antibody - Protein Information

Name PAX4

Function

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.

PAX4 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](#)

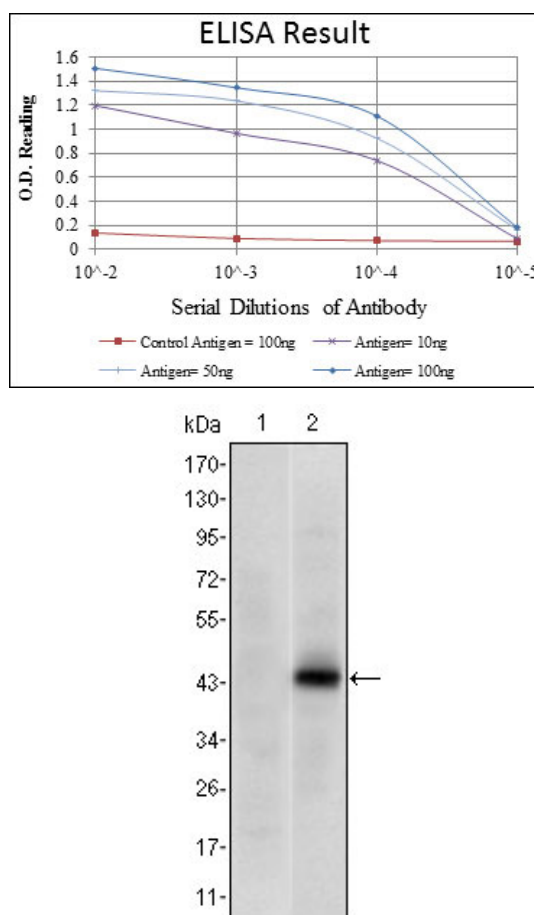


Figure 1: Western blot analysis using PAX4 mAb against HEK293 (1) and PAX4(AA: 105-232)-hIgGFc transfected HEK293 (2) cell lysate.

PAX4 Antibody - References

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