

Rabbit PAX4 Polyclonal Antibody | anti-PAX4 antibody

PAX4 Antibody (Center)

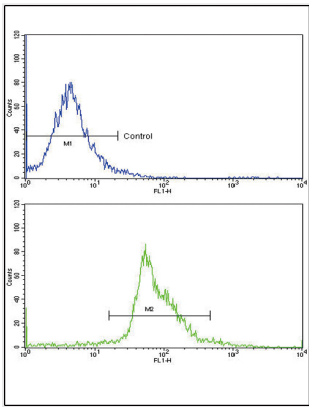
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA287690	Rabbit	Human, rat (Predicted Reactivity: Mouse)	Flow Cytometry, Functional Assay, Immunohistochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

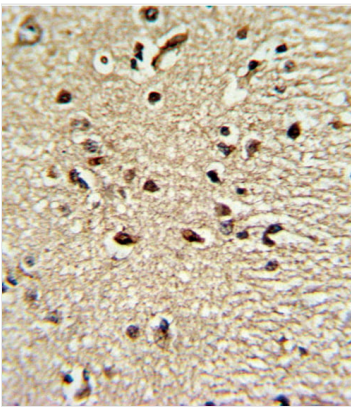
PAX4; Polyclonal Antibody; PAX4 Antibody (Center); Paired box protein Pax-4; anti-PAX4 antibody

PRODUCT SPECIFICATIONS

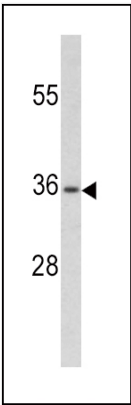
Host	Rabbit
Reactivity	Human, rat (Predicted Reactivity: Mouse)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This PAX4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 171-200 amino acids from the Central region of human PAX4.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Concentration	Vial Concentration: 2 (varies by lot)
Sequence Positions	171-200
Sequence Length	343
Applicable Applications for anti-PAX4 antibody	FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Cellular Location	Nucleus.
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.
Precautions	PAX4 Antibody (Center) is for research use only.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



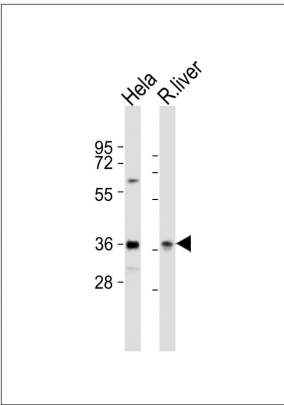
FCM/FACS (Flow Cytometry)
Flow cytometric analysis of wdr cells using PAX4 Antibody (Center)(bottom histogram) compared to a negative control cell (top histogram) FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



IHC (Immunohistochemistry)
Formalin-fixed and paraffin-embedded human brain tissue reacted with PAX4 Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



WB (Western Blot)
Western blot analysis of PAX4 antibody (Center) (RB20216) in CEM cell line lysates (35ug/lane). PAX4 (arrow) was detected using the purified Pab.



WB (Western Blot)
All lanes : Anti-PAX4 Antibody (Center) at 1:2000 dilution
Lane 1: HeLa whole cell lysates
Lane 2: rat liver lysates
Lysates/proteins at 20 ug per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution
Predicted band size : 38 kDa
Blocking/Dilution buffer: 5% NFDm/TBST.

ADDITIONAL INFORMATION

Related Product Information for anti-PAX4 antibody	PAX4 is a member of the paired box (PAX) family of transcription factors. These proteins 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.
Product Categories/Family for anti-PAX4 antibody	Developmental Biology
References	Hata,S., Int. J. Oncol. 33 (5), 1065-1071 (2008) Zhang,Y., Diabetes Res. Clin. Pract. 81 (3), 365-369 (2008)

NCBI AND UNIPROT INFORMATION

NCBI GI #	170784824
NCBI GeneID	5078
NCBI Accession #	NP_006184.2
NCBI GenBank Nucleotide #	NM_006193.2
UniProt Accession #	O43316; O95161; Q6B0H0

Molecular Weight	37833
NCBI Official Full Name	paired box protein Pax-4
NCBI Official Synonym Full Names	paired box 4
NCBI Official Symbol	PAX4
NCBI Official Synonym Symbols	KPD; MODY9
NCBI Protein Information	paired box protein Pax-4
UniProt Protein Name	Paired box protein Pax-4
UniProt Gene Name	PAX4
UniProt Entry Name	PAX4_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/pax4-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/287690>