

Rabbit PAX1 Polyclonal Antibody | anti-PAX1 antibody

Anti-PAX1 Antibody

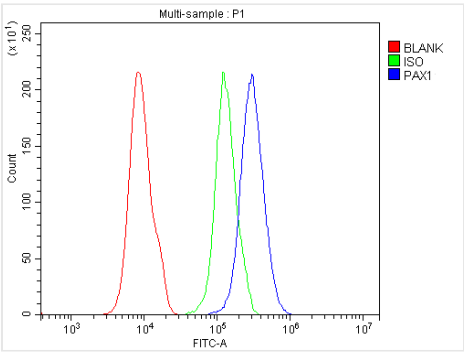
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125727	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

PAX1; Polyclonal Antibody; Anti-PAX1 Antibody; Paired box protein Pax-1; HuP48; HUP48; paired box 1; anti-PAX1 antibody

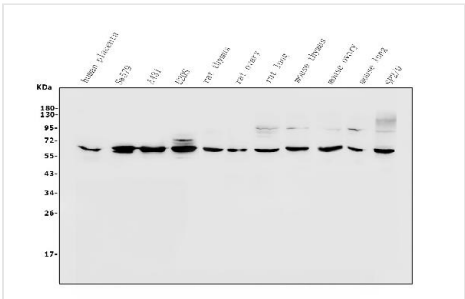
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for PAX1 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.01mg Na ₃ .
Applicable Applications for anti-PAX1 antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E Coli-derived human PAX1 recombinant protein (Position: S218-P382).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of 293T cells using anti-PAX1 antibody (AAA125727).Overlay histogram showing 293T cells stained with AAA125727 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-PAX1 Antibody (AAA125727, 1μg/1x10⁶ cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10μg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1μg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of PAX1 using anti-PAX1 antibody (AAA125727).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30ug of sample under reducing conditions.Lane 1: human placenta tissue lysatesLane 2: human Sw579 whole cell lysatesLane 3: human A431 whole cell lysatesLane 4: human U20S whole cell lysatesLane 5: rat thymus tissue lysatesLane 6: rat ovary tissue lysatesLane 7: rat lung tissue lysatesLane 8: mouse thymus tissue lysatesLane 9: mouse ovary tissue lysatesLane 10: mouse lung tissue lysatesLane 11: mouse SP2/0 whole cell lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1. 5 hour at RT. The membrane was incubated with rabbit anti-PAX1 antigen affinity purified polyclonal antibody (Catalog # AAA125727) at 0. 5 μg/mL overnight at 4 degree C, then washed with TBS-0. 1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1. 5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for PAX1 at approximately 60KD. The expected band size for PAX1 is at 60KD.

ADDITIONAL INFORMATION

Related Product Information for anti-PAX1 antibody	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. This gene plays a role in pattern formation during embryogenesis and may be essential for development of the vertebral column. This gene is silenced by methylation in ovarian and cervical cancers and may be a tumor suppressor gene. Mutations in this gene are also associated with vertebral malformations.
References	1. Hol, F. A., Geurds, M. P. A., Chatkupt, S., Shugart, Y. Y., Balling, R., Schrandt-Stumpel, C. T. R. M., Johnson, W. G., Hamel, B. C. J., Mariman, E. C. M. PAX genes and human neural tube defects: an amino acid substitution in PAX1 in a patient with spina bifida. J. Med. Genet. 33: 655-660, 1996. 2. McGaughran, J. M., Oates, A., Donnai, D., Read, A. P., Tassabehji, M. Mutations in PAX1 may be associated with Klippel-Feil syndrome. Europ. J. Hum. Genet. 11: 468-474, 2003. 3. Pohl, E., Aykut, A., Beleggia, F., Karaca, E., Durmaz, B., Keupp, K., Arslan, E., Palamar, M., Yigit, G., Ozkinay, F., Wollnik, B. A hypofunctional PAX1 mutation causes autosomal recessively inherited otofaciocervical syndrome. Hum. Genet. 132: 1311-1320, 2013. Note: Erratum: Hum. Genet. 132: 1321 only, 2013.

NCBI AND UNIPROT INFORMATION

NCBI GI #	296439493
NCBI GeneID	5075
UniProt Accession #	P15863; Q642X9; Q6NTC0; Q9Y558; B4E0D6
Molecular Weight	534
NCBI Official Full Name	Paired box protein Pax-1
NCBI Official Synonym Full Names	paired box 1
NCBI Official Symbol	PAX1
NCBI Official Synonym Symbols	OFC2; HUP48

NCBI Protein Information	paired box protein Pax-1; paired box gene 1; paired domain gene HuP48
UniProt Protein Name	Paired box protein Pax-1
UniProt Gene Name	PAX1
UniProt Synonym Gene Names	HUP48
UniProt Entry Name	PAX1_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://www.aaabiotech.com/polyclonal/pax1-antibody-direct-elisa-flow-cytometry-western-blot-elisa/125727>