

Rabbit PAX3 Polyclonal Antibody | anti-PAX3 antibody

Anti-PAX3 Antibody

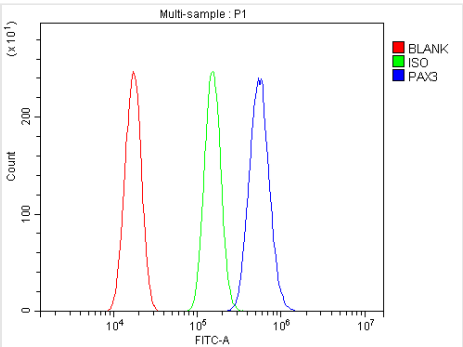
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125536	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

PAX3; Polyclonal Antibody; Anti-PAX3 Antibody; Paired box protein Pax-3; HuP2; HUP2; paired box 3; anti-PAX3 antibody

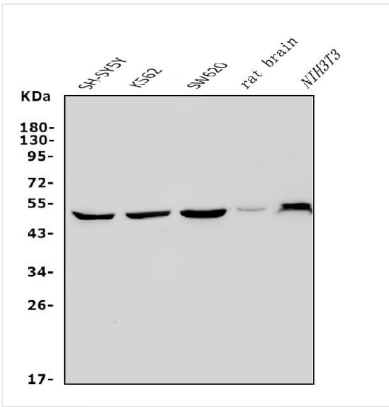
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for PAX3 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 NaN ₃ .
Applicable Applications for anti-PAX3 antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E Coli-derived human PAX3 recombinant protein (Position: T301-F479).
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 U87 cells using anti-PAX3 antibody (AAA125536). Overlay histogram showing U87 cells stained with AAA125536 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-PAX3 Antibody (AAA125536, 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 PAX3 using anti-PAX3 antibody (AAA125536). 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 SH-SY5Y whole cell lysates Lane 2: human K562 whole cell lysates Lane 3: human SW620 whole cell lysates Lane 4: rat brain tissue lysates Lane 5: mouse NIH/3T3 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-PAX3 antigen affinity purified polyclonal antibody (Catalog # AAA125536) 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 PAX3 at approximately 53KD. The expected band size for PAX3 is at 53KD.

ADDITIONAL INFORMATION

Related Product Information for anti-PAX3 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. 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.
References	1. Asher, J. H., Jr., Sommer, A., Morrell, R., Friedman, T. B. Missense mutation in the paired domain of PAX3 causes craniofacial-deafness-hand syndrome. Hum. Mutat. 7: 30-35, 1996. 2. Baldwin, C. T., Hoth, C. F., Macina, R. A., Milunsky, A. Mutations in PAX3 that cause Waardenburg syndrome type I: ten new mutations and review of the literature. Am. J. Med. Genet. 58: 115-122, 1995. 3. Barber, T. D., Barber, M. C., Cloutier, T. E., Friedman, T. B. PAX3 gene structure, alternative splicing and evolution. Gene 237: 311-319, 1999.

NCBI AND UNIPROT INFORMATION

NCBI GI #	1172022
NCBI GeneID	5077
UniProt Accession #	P23760; Q16448; Q494Z3; Q494Z4; Q53T90; Q6GSJ9; Q86UQ2; Q86UQ3; G5E9C1
Molecular Weight	479
NCBI Official Full Name	Paired box protein Pax-3
NCBI Official Synonym Full Names	paired box 3
NCBI Official Symbol	PAX3
NCBI Official Synonym Symbols	WS1; WS3; CDHS; HUP2

NCBI Protein Information	paired box protein Pax-3; paired domain gene 3; paired domain gene HuP2; paired box homeotic gene 3
UniProt Protein Name	Paired box protein Pax-3
UniProt Gene Name	PAX3
UniProt Synonym Gene Names	HUP2
UniProt Entry Name	PAX3_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/pax3-antibody-direct-elisa-flow-cytometry-western-blot-elisa/125536>