

Rabbit PAX3 Polyclonal Antibody | anti-PAX3 antibody

PAX3 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326314	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

PAX3; Polyclonal Antibody; PAX3 Antibody; CDHS; HUP 2; HUP2; MGC120381; MGC120382; MGC120383; MGC120384; MGC134778; Paired box 3; Paired box gene 3; Paired box homeotic gene 3; Paired box protein Pax 3; Paired box protein Pax-3; Paired box protein Pax3; Paired domain gene 3; Paired domain gene HuP2; PAX 3; Pax3; PAX3/FKHR fusion gene; PAX3_HUMAN; Sp; splotch; Waardenburg syndrome 1; WS 1; WS1; WS3; anti-PAX3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	PAX3 antibody detects endogenous levels of total PAX3
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	215
Applicable Applications for anti-PAX3 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human PAX3
Subcellular Location	Nucleus.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Chicken
Similarity	Pig (100%), Bovine (92%), Horse (100%), Sheep (92%), Rabbit (100%), Chicken (83%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES


WB (Western Blot)

Western blot analysis of extracts from mouse liver, rat muscle, using PAX3 Antibody.


WB (Western Blot)

Western blot analysis of extracts of A431, using PAX3 antibody. The lane on the left is treated with the antigen-specific peptide.



IF (Immunofluorescence)

AAA326314 staining HepG2 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



IHC (Immunohistochemistry)

AAA326314 at 1/100 staining Mouse brain tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-PAX3 antibody

Description: Paired box (PAX) proteins are a family of transcription factors that play important and diverse roles in animal development (1). Nine PAX proteins (PAX1-9) have been described in humans and other mammals. They are defined by the presence of an amino-terminal paired domain, consisting of two helix-turn-helix motifs, with DNA binding activity (2). PAX proteins are classified into four structurally distinct subgroups (I-IV) based on the absence or presence of a carboxy-terminal homeodomain and a central octapeptide region. Subgroup I (PAX1 and 9) contains the octapeptide but lacks the homeodomain; subgroup II (PAX2, 5, and 8) contains the octapeptide and a truncated homeodomain; subgroup III (PAX3 and 7) contains the octapeptide and a complete homeodomain; and subgroup IV (PAX4 and 6) contains a complete homeodomain but lacks the octapeptide region (2). PAX proteins play critically important roles in development by regulating transcriptional networks responsible for embryonic patterning and organogenesis (3); a subset of PAX proteins also maintain functional importance during postnatal development (4). Research studies have implicated genetic mutations that result in aberrant expression of PAX genes in a number of cancer subtypes (1-3), with members of subgroups II and III identified as potential mediators of tumor progression (2).

Function: Transcription factor that may regulate cell proliferation, migration and apoptosis. Involved in neural development and myogenesis. Transcriptional activator of MITF, acting synergistically with SOX10 (PubMed:21965087).

Subunit Structure: Can bind to DNA as a homodimer or a heterodimer with PAX7. Interacts with PAXBP1; the interaction links PAX3 to a WDR5-containing histone methyltransferase complex. Interacts with DAXX. Interacts with TBX18. Interacts with SOX10 (PubMed:21965087).

Similarity: Belongs to the paired homeobox family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	6654638
NCBI GeneID	5077
NCBI Accession #	NP_000429.2
NCBI GenBank Nucleotide #	NM_000438.5
UniProt Accession #	P23760 ; Q16448 ; Q494Z3 ; Q494Z4 ; Q53T90 ; Q6GSJ9 ; Q86UQ2 ; Q86UQ3 ; G5E9C1
Molecular Weight	Observed: 50 kDa Predicted: 53 kDa
NCBI Official Full Name	paired box protein Pax-3 isoform PAX3a
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
UniProt Protein Name	Paired box protein Pax-3
UniProt Gene Name	PAX3
UniProt Synonym Gene Names	HUP2

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-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/326314>