

Rabbit PAX3 Polyclonal Antibody | anti-PAX3 antibody

PAX3 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA305561	Rabbit	Human, Mouse, Rat	Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

PAX3; Polyclonal Antibody; PAX3 Antibody; CDHS; HUP2; WS1; WS3; anti-PAX3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Specificity	The antibody detects endogenous level of total PAX3 protein.
Purity/Purification	Antibodies were purified by affinity purification using immunogen.
Form/Format	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1.0 mg/ml (varies by lot)
Sequence Length	215
Applicable Applications for anti-PAX3 antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant protein of human PAX3.
Target Name	PAX3
Preparation and Storage	Store at -20 degree C

IMAGES



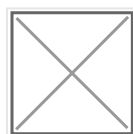
IF (Immunofluorescence)

Immunofluorescence analysis of MCF7 cell using PAX3 antibody. Blue: DAPI for nuclear staining.



IHC (Immunohistochemistry)

Immunohistochemical analysis of paraffin-embedded rat lung using PAX3 antibody at dilution of 1:200 (400x lens).



IHC (Immunohistochemistry)

Immunohistochemical analysis of paraffin-embedded rat liver using PAX3 antibody at dilution of 1:200 (400x lens).



IHC (Immunohistochemistry)

Immunohistochemical analysis of paraffin-embedded human lung cancer using PAX3 antibody at dilution of 1:200 (400x lens).



WB (Western Blot)

Western blot analysis of extracts of various cell lines, using PAX3 antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-PAX3 antibody	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).
Product Categories/Family for anti-PAX3 antibody	Total protein Ab

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	55,975 Da
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
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.