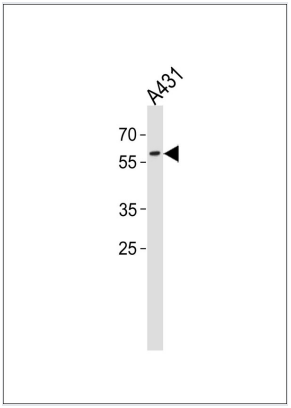
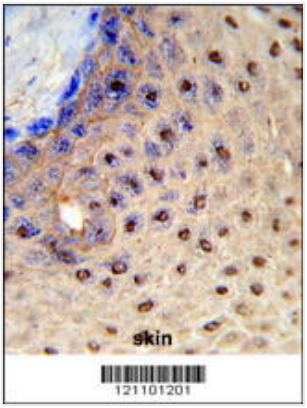
PAX3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

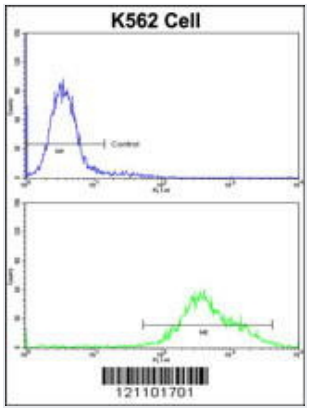
Product Name	PAX3, Polyclonal Antibody
Full Product Name	PAX3, NT (Paired Box Protein Pax-3, HUP2) (AP)
Product Gene Name	anti-PAX3 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Alkaline Phosphatase (AP).
Purity/Purification	Purified by Immunoaffinity chromatography.
Specificity	Recognizes human PAX3.
Preparation and Storage	May be stored at 4 degree C for short-term only. Do not freeze alkaline phosphatase conjugates which could result in a substantial loss of enzymatic activity. Light sensitive. Aliquots are stable for at least 6 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	53kDa
OMIM	phenotype 606597
3D Structure	ModBase 3D Structure for P23760
Immunogen	Synthetic peptide selected from the N-terminal region of human PAX3 (KLH).
Conjugate	AP
Note	Preservative Free
Product Categories/Family for anti-PAX3 antibody	Antibodies; Transcription Factors
Applications Tested/Suitable for anti-PAX3 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-PAX3 antibody	WB: 1:100-1:500 ELISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-PAX3 antibody	MBS6492226 is an antibody targeting PAX3. Also known as PAX3, NT (Paired Box Protein Pax-3, HUP2) (AP). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-PAX3 antibody	1. Boutet, S.C., et.al., Cell 130(2), 349-362 (2007).
Other Notes	Small volumes of anti-PAX3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-PAX3 antibody
PAX3 Antibody (N-term) western blot analysis in A431 cell line lysates (35ug/lane).This demonstrates the PAX3 antibody detected the PAX3 protein (arrow).



Immunohistochemistry (IHC) of anti-PAX3 antibody
Formalin-fixed and paraffin-embedded human skin reacted with PAX3 Antibody (N-term), 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.



Flow Cytometry (FC/FACS) of anti-PAX3 antibody
Flow cytometric analysis of K562 cells using PAX3 Antibody (N-term)(bottom histogram) compared to a negative control cell (top histogram)FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PAX3. It may not necessarily be applicable to this product.

NCBI GI #	31563340
NCBI GeneID	5077
NCBI Accession #	NP_852122
UniProt Primary Accession #	P23760
UniProt Related Accession #	P23760
GenBank Nucleotide #	NM_181457
NCBI Official Full Name	paired box protein Pax-3 isoform PAX3
NCBI Official Synonym Full Names	paired box 3
NCBI Official Symbol	PAX3
NCBI Official Synonym Symbols	WS1; WS3; CDHS; HUP2
UniProt Protein Name	Paired box protein Pax-3
UniProt Synonym Protein Names	HuP2
Protein Family	Paired box protein

UniProt Gene Name	PAX3
UniProt Synonym Gene Names	HUP2
UniProt Entry Name	PAX3_HUMAN
NCBI Protein Information	paired box protein Pax-3
NCBI Summary for PAX3	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. [provided by RefSeq, Jul 2008]
UniProt Comments for PAX3	PAX3: Probable transcription factor associated with development of alveolar rhabdomyosarcoma. Can bind to DNA as a heterodimer with PAX7. Interacts with DAXX. Belongs to the paired homeobox family. 7 isoforms of the human protein are produced by alternative splicing. Protein type: Transcription factor; Oncoprotein; DNA-binding Chromosomal Location of Human Ortholog: 2q35 Cellular Component: nucleus Molecular Function: RNA polymerase II transcription factor activity, enhancer binding; protein binding; sequence-specific DNA binding; chromatin binding; transcription factor activity Biological Process: transcription from RNA polymerase II promoter; muscle development; apoptosis; heart development; positive regulation of transcription, DNA-dependent; pigmentation during development; neuron fate commitment; negative regulation of transcription from RNA polymerase II promoter; cell proliferation; organ morphogenesis; sensory perception of sound; positive regulation of cell proliferation; neural tube closure; spinal cord association neuron differentiation; positive regulation of transcription from RNA polymerase II promoter; regulation of somitogenesis; neural crest cell migration Disease: Waardenburg Syndrome, Type 3; Craniofacial-deafness-hand Syndrome; Rhabdomyosarcoma 2; Waardenburg Syndrome, Type 1
Research Articles on PAX3	**1.** In this review, we will discuss the current knowledge regarding potential therapeutic targets that might contribute to indirect interference with PAX3-FOXO1 activity in alveolar rhabdomyosarcoma at the different molecular levels and extrapolate these findings to fusion transcription factors in general.
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