

PAX3 Antibody



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Applications: W	Reactivity:	Sensitivity: Transfected Only	MW (kDa): 62	Source/Isotype: Rabbit	UniProt ID: #P23760	Entrez-Gene Id 5077
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		PAX3 Antibody recognizes transfected levels of total PAX3 protein.				
Species predicted based on 100% se homology		Mouse, Rat, Monkey				
Source / Purificat	tion	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human PAX3 protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		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).				
Background References		1. Lang, D. et al. (2007) <i>Biochem Pharmacol</i> 73, 1-14. 2. Robson, E.J. et al. (2006) <i>Nat Rev Cancer</i> 6, 52-62. 3. Wang, Q. et al. (2008) <i>J Cell Mol Med</i> 12, 2281-94. 4. Blake, J.A. et al. (2008) <i>Dev Dyn</i> 237, 2791-803.				
Species Reactivit	у	Species reactivity is de	termined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Key		W: Western Blotting				
Cross-Reactivity Key		H: Human				
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