PAX2 Antibody		Cell Signaling	
Store	Orders:	877-616-CELL (2355) orders@cellsignal.com	
99	Support:	877-678-TECH (8324)	
#9666	Web:	info@cellsignal.com cellsignal.com	
#	3 Trask Lane   Danvers   Ma	ssachusetts   01923   USA	

## For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB, IP	Reactivity: H M R	Sensitivity: Endogenous	<b>MW (kDa):</b> 47	Source: Rabbit	UniProt ID: #Q02962	Entrez-Gene Id: 5076
Product Usage Information	We	<b>plication</b> stern Blotting nunoprecipitation			<b>Dilution</b> 1:1000 1:100	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity / Sensit	ivity PAX	PAX2 Antibody recognizes endogenous levels of total PAX2 protein.				
Species predicted react based on 100 sequence homolog	)%	ikey				
Source / Purificatio	resid	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding His282 of human PAX2 protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background	anim They moti IV) b regio 5, ar octa bom deve orga deve PAX pote PAX	<ul> <li>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).</li> <li>PAX2 is involved in the development of the nervous and excretory systems including the kidney and urogentical tract, the optic stalk, ear, midbrain-hindbrain junction, and the spinal cord (5,6).</li> </ul>				
Background Refere	2. R 3. W 4. Bl 5. Sc	ang, D. et al. (2007) <i>E</i> obson, E.J. et al. (20) /ang, Q. et al. (2008) lake, J.A. et al. (2008 chedl, A. and Hastie, prres, M. et al. (1995)	06) Nat Rev Cance J Cell Mol Med 12 b) Dev Dyn 237, 27 N.D. (2000) Curr (	er 6, 52-62. , 2281-94. 91-803. Dpin Genet Dev 10,	543-9.	
Species Reactivity	Spec	ies reactivity is deter	mined by testing ir	at least one appro	ved application (e.g., wes	stern blot).
Western Blot Buffe		DRTANT: For western Tween® 20 at 4°C w			d primary antibody in 5%	w/v BSA, 1X TBS,
Applications Key	WB:	Western Blotting IP:	Immunoprecipitat	on		

1/1/24, 3:10 PM	PAX2 Antibody (#9666) Datasheet Without Images Cell Signaling Technology
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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