Revision 3

Store at -20C

735

## XRCC1 Antibody



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Applications: W, IF-IC	Reactivity: H	Sensitivity: Endogenous	<b>MW (kDa):</b> 82	Source/Isotype: Rabbit	<b>UniProt ID:</b> #P18887	Entrez-Gene Id: 7515		
Product Usage Information		<b>Application</b> Western Blotting Immunofluorescence	(Immunocytochemi	stry)		<b>Dilution</b> 1:1000 1:100		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.						
Specificity/Sens	itivity	XRCC1 Antibody detects endogenous levels of total XRCC1 protein.						
Species predicto based on 100% homology	ed to react sequence	Monkey						
Source / Purifica	ation	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to amino acids surrounding Arg300 of human XRCC1. Antibodies are purified by protein A and peptide affinity chromatography.						
Background		The X-ray repair cross-complementing protein 1 (XRCC1) is a DNA repair protein important in both single strand break repair and base excision repair following damage from ionizing radiation and alkylating agents (1). XRCC1 acts as a scaffold protein to coordinate DNA abasic site repair through interaction with several other repair proteins (2). At least eight XRCC1 protein partners have been identified, including the polynucleotide kinase PNK (3), DNA ligase III (4,5), poly (ADP-ribose) polymerase (6), and PCNA (7). Mutations and polymorphisms in the <i>XRCC1</i> gene serve as diagnostic markers and are associated with elevated risk of various forms of cancers (8).						
Background Re	ferences	1. Brem, R. and Hall, J. 2. Vidal, A.E. et al. (200 3. Whitehouse, C.J. et a 4. Caldecott, K.W. et al 5. Nash, R.A. et al. (199 6. Masson, M. et al. (199 7. Fan, J. et al. (2004) M 8. Hu, Z. et al. (2005) C	(2005) Nucleic Acid. 11) EMBO J. 20, 6530 al. (2001) Cell 104, 1 . (1994) Mol. Cell. Bi 77) Biochemistry 36, 998) Mol. Cell. Biol. Sucleic Acids Res. 32 Cancer Epidemiol. Bi	s Res. 33, 2512-2520. -6539. 07-117. ol. 14, 68-76. 5207-5211. 18, 3563-3571. , 2193-2201. omarkers Prev. 14, 1810	-1818.			
Species Reactiv	ity	Species reactivity is de	etermined by testing	in at least one approve	d application (e.g.,	western blot).		
Western Blot Bu	uffer	IMPORTANT: For west TBS, 0.1% Tween® 20	ern blots, incubate ı at 4°C with gentle s	nembrane with diluted haking, overnight.	primary antibody ir	า 5% w/v BSA, 1X		
Applications Ke	у	W: Western Blotting I	F- <b>IC:</b> Immunofluore	scence (Immunocytoche	mistry)			
Cross-Reactivity	y Key	H: Human						
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