XRCC1 Antibody

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

Applications: WB, IP, IF-IC	Reactivity H	: Sensitivity: Endogenous	MW (kDa): 82	Source: Rabbit	UniProt ID: #P18887	Entrez-Gene Id: 7515		
Product Usage Information		Application				Dilution		
Information		Western Blotting				1:1000		
		Immunoprecipitation				1:100		
		Immunofluorescence (Ir	nmunocytochemis	try)		1:100		
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 / Sensiti	vity	XRCC1 Antibody detects endogenous levels of total XRCC1 protein.						
Species predicted t react based on 100 sequence homolog	%	Monkey						
Source / Purificatio		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 Refere		1. Brem, R. and Hall, J. (2. Vidal, A.E. et al. (2001 3. Whitehouse, C.J. et al 4. Caldecott, K.W. et al. (5. Nash, R.A. et al. (1997 6. Masson, M. et al. (1997 7. Fan, J. et al. (2004) <i>No</i> 8. Hu, Z. et al. (2005) <i>Ca</i>) EMBO J. 20, 653 . (2001) Cell 104, 2 (1994) Mol. Cell. Bi 7) Biochemistry 36, 8) Mol. Cell. Biol. 2 ucleic Acids Res. 3	0-6539. 107-117. <i>iol.</i> 14, 68-76. 5207-5211. 18, 3563-3571. 2, 2193-2201.				
Species Reactivity	S	Species reactivity is deter	mined by testing ir	at least one appro	ved application (e.g., we	stern blot).		
Western Blot Buffe		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	,	WB: Western Blotting IP:	: Immunoprecipitat	ion IF-IC: Immunof	uorescence (Immunocyt	ochemistry)		
Cross-Reactivity K	· >	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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