e at -20C	Rad23A (D7U7Z) Rabbit mAb		<b>Cell Signaling</b> TECHNOLOGY®
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For Research Use Onl	y. Not for Use in Diagno	stic Procedures.

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Applications: WB, IP	<b>Reactivity:</b> H M R Mk	Sensitivity: Endogenous	<b>MW (kDa):</b> 52	Source/Isotype: Rabbit IgG	UniProt ID: #P54725	Entrez-Gene Id: 5886		
Product Usage Information		pplication estern Blotting imunoprecipitation	<b>Dilution</b> 1:1000 1:50					
Storage			M sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than ide. Store at –20°C. Do not aliquot the antibody.					
Specificity / Sensitivity		Rad23A (D7U7Z) Rabbit mAb recognizes endogenous levels of total Rad23A protein. This antibody does not cross-react with Rad23B.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gln214 of human Rad23A protein.						
Background		The yeast nucleotide excision repair (NER) radiation sensitive protein 23 (rad23) and its human homologs Rad23A (hHR23A) and Rad23B (hHR23B) are critical components of the cellular machinery that recognize DNA lesions and serve as receptors that target ubiquitinated substrates to the proteasome for degradation (1). The UV excision repair protein Rad23A is a multi-domain scaffold protein that plays an important role in ubiquitin-dependent proteasomal degradation. Rad23A protein contains an amino-terminal ubiquitin-like (UBL) domain and two ubiquitin binding domains, UBA1 and UBA2, that flank an XPC binding domain (2). Rad23A is thought to form a closed conformation that is dictated by an intramolecular interaction between the UBL and UBA domains. Binding of the Rad23A UBL domain to the S5a/PSMD4 subunit of the proteasome lid disrupts the intramolecular UBL-UBA association within Rad23A and promotes its association with the proteasome (3). Research studies show that Rad23A can be recruited to the proteasome through an interaction between its UBL domain and the S2/PSMD2 proteasome subunit (4). The UBA domains of Rad23A bind mono- and polyubiquitin and are thought to shuttle proteins modified with Lys48-linked polyubiquitin chains to the proteasome for degradation (1,5-7). In addition to its role as an ubiquitin-binding protein, Rad23A also participates in nucleotide excision repair (NER) by binding and stabilizing the NER DNA binding protein XPC (2,8).						
Background Refe	2. M 3. V 4. E 5. F 6. M 7. E	/erma, R. et al. (200/ Masutani, C. et al. (1 Nalters, K.J. et al. (2) Elsasser, S. et al. (20 Raasi, S. et al. (2005 Nathan, J.A. et al. (20 Elsasser, S. et al. (2003) Ng, J.M. et al. (2003)	994) EMBO J 13 003) Proc Natl A 002) Nat Cell Biol 0 Nat Struct Mol 013) EMBO J 32, 004) J Biol Chem	, 1831-43. cad Sci U S A 100, 1269 4, 725-30. Biol 12, 708-14. 552-65. 279, 26817-22.	)4-9.			
Species Reactivity		Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications Key		WB: Western Blotting IP: Immunoprecipitation						
Cross-Reactivity Key		<ul> <li>H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster</li> <li>X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse</li> <li>GP: Guinea Pig Rab: rabbit All: all species expected</li> </ul>						

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