#5437 Store at -20C

ERCC1 (D61F5) Rabbit mAb



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Applications: WB	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 39	Source/Isotype: Rabbit	UniProt ID: #P07992	Entrez-Gene Id: 2067
Product Usage Information	-	plication estern Blotting		Dilution 1:1000		
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity / Sensitivity		ERCC1 (D61F5) Rabbit mAb recognizes endogenous levels of total ERCC1 isoforms 1, 2 and 3 protein. Experiments utilizing overexpression constructs indicated that this antibody does not cross-react with ERCC1 isoform 4.				
Source / Purification Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human ERCC1 protein.						esponding to
Background	repa abo com XPF stra resp	DNA repair systems operate in all living cells to manage a variety of DNA lesions. Nucleotide excision repair (NER) is implemented in cases where bulky helix-distorting lesions occur, such as those brought about by UV and certain chemicals (1). Excision Repair Cross Complementing 1 (ERCC1) forms a complex with ERCC4/XPF, which acts as the 5' endonuclease required to excise the lesion (2). ERCC1-XPF is also required for repair of DNA interstrand crosslinks (ICLs) (3) and involved in repair of double strand breaks (4). Research studies have shown that expression of ERCC1 is related to survival rate and response to chemotherapeutic drugs in several human cancers including non-small cell lung cancer (NSCLC) (5,6).				
Background Refere	2. M 3. N 4. A 5. Z	 Shuck, S.C. et al. (2008) Cell Res 18, 64-72. McDaniel, L.D. and Schultz, R.A. (2008) Adv Exp Med Biol 637, 65-82. Niedernhofer, L.J. et al. (2004) Mol Cell Biol 24, 5776-87. Ahmad, A. et al. (2008) Mol Cell Biol 28, 5082-92. Zheng, Z. et al. (2007) N Engl J Med 356, 800-8. Gossage, L. and Madhusudan, S. (2007) Cancer Treat Rev 33, 565-77. 				

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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting

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 Dq: doq Pq: piq Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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