

#13465 Store at -20C

XPF (D3G8C) Rabbit mAb



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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB	H R Mk	Endogenous	104	Rabbit IgG	#Q92889	2072

Product Usage Information	Application Western 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	XPF (D3G8C) Rabbit mAb recognizes endogenous levels of total XPF (ERCC4) protein.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Arg670 of human XPF (ERCC4) protein.	
Background	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 4 (ERCC4, XPF) forms a complex with the ERCC1 excision repair protein to create an essential 5' endonuclease responsible for lesion excision (2). ERCC1-XPF is also required for repair of DNA interstrand crosslinks (ICLs) (3) and involved in repair of double strand breaks (4). Mutations in the corresponding <i>XPF</i> gene cause specific forms of xeroderma pigmentosum, Cockayne syndrome, and Fanconi anemia, while altered XPF protein levels may be associated with disease progression and response to treatment in specific human cancers (5,6).	
Background References	<ol style="list-style-type: none"> 1. Shuck, S.C. et al. (2008) <i>Cell Res</i> 18, 64-72. 2. McDaniel, L.D. and Schultz, R.A. (2008) <i>Adv Exp Med Biol</i> 637, 65-82. 3. Niedernhofer, L.J. et al. (2004) <i>Mol Cell Biol</i> 24, 5776-87. 4. Ahmad, A. et al. (2008) <i>Mol Cell Biol</i> 28, 5082-92. 5. Kashiwara, K. et al. (2013) <i>Am J Hum Genet</i> 92, 807-19. 6. Köberle, B. et al. (2010) <i>Int J Oncol</i> 36, 1277-84. 	

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 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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