e at -20C	HELQ (D4K2O) Rabbit mAb	He -	Cell Signaling	
Store at		Orders:	877-616-CELL (2355) orders@cellsignal.com	
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For Research Use Only. Not for Use in Diagnostic Procedures.								
Applications:	Peactivity:	Sonsitivity:	MW (kDa)					

Applications: WB	Reactivity: H	Sensitivity: Endogenous	<b>MW (kDa):</b> 130	Source/Isotype: Rabbit IgG	UniProt ID: #Q8TDG4	Entrez-Gene Id: 113510	
Product Usage Information		pplication /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 / Sensit		HELQ (D4K2O) Rabbit mAb recognizes endogenous levels of total HELQ protein. In some cell lines, this antibody cross-reacts with a 200 kDa band of unknown identity by western blot.					
Source / Purificatio		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro1091 of human HELQ protein.					
Background DNA interstrand crosslinks (ICLs) are toxic DNA le chemotherapeutic drugs. These lesions are repair as HEL308) is a 3'-5' DNA helicase that colocalize damage, and contributes to the repair of ICL lesio various DNA repair proteins, including FANCD2, F mice exhibit reduced fertility as well as interstrand (3).				are repaired via multiple colocalizes with stalled I ICL lesions through ATF NCD2, RAD51, RAD51	DNA repair pathways DNA replication forks i R signaling (1,2). HEL . paralogs, and ATR (1	. HELQ (also known n response to DNA Q interacts with 3). HELQ-deficient	
Background References       1. Tafel, A.A. et al. (2011) J Biol Chem 286, 15832-40.         2. Takata, K. et al. (2013) Nat Commun 4, 2338.         3. Adelman, C.A. et al. (2013) Nature 502, 381-4.							
Species Reactivity	Spe	ecies reactivity is dete	ermined by testing	g in at least one approve	ed application (e.g., we	estern blot).	
Western Blot Buffe		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	WE	<b>3:</b> Western Blotting					
Cross-Reactivity K	X: >	<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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