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

Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 130	Source/Isotype: Rabbit IgG	UniProt ID: #Q8TDG4	Entrez-Gene Id: 113510		
Product Usage Information	9	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/Ser	Example 2 HELQ (D4K2O) Rabbit mAb recognizes endogenous levels of total HELQ protein. In some cell line antibody cross-reacts with a 200 kDa band of unknown identity by western blot.				ome cell lines, this			
Source / Purifi	cation	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 lesions caused by environmental agents as well as some chemotherapeutic drugs. These lesions are repaired via multiple DNA repair pathways. HELQ (also known as HEL308) is a 3'-5' DNA helicase that colocalizes with stalled DNA replication forks in response to DNA damage, and contributes to the repair of ICL lesions through ATR signaling (1,2). HELQ interacts with various DNA repair proteins, including FANCD2, RAD51, RAD51 paralogs, and ATR (1-3). HELQ-deficient mice exhibit reduced fertility as well as interstrand crosslink (ICL) repair defects, and are prone to tumors (3).						
Background R	eferences	1. Tafel, A.A. et al. (2011) <i>J Biol Chem</i> 286, 15832-40. 2. Takata, K. et al. (2013) <i>Nat Commun</i> 4, 2338. 3. Adelman, C.A. et al. (2013) <i>Nature</i> 502, 381-4.						
Species Reacti	vity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot E	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 K	ey	W: Western Blotting						
Cross-Reactivi	ty Key	H: Human						
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