Phospho-FANCD2 (Ser222) Antibody



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Applications: W	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 155 FANCD2-S. 230 FANCD2-L.	Source/Isotype: Rabbit	UniProt ID: #Q9BXW9	Entrez-Gene Id: 2177
Product Usage Information		ApplicationDilutionWestern Blotting1:1000				
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Phospho-FANCD2 (Ser222) Antibody detects endogenous levels of FANCD2 only when phosphorylated at Ser222.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser222 of human FANCD2. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		Fanconi anemia (FA) is an autosomal recessive genetic disorder resulting in symptoms that include chromosomal breakage, bone marrow failure, hypersensitivity to DNA cross-linking agents (such as mitomycin C), and a predisposition to cancer (1). In response to DNA damage, the FA nuclear complex (FANCA, FANCB, FANCC, FANCE, FANCF, FANCG, FANCM) induces mono-ubiquitination of FANCD2 and FANCI (2).Monoubiquitination of FANCD2 induces localization of FANCD2 to sites of DNA damage, where it interacts with BRCA1. FANCJ/BRIP1, FANCD1/BRCA2, and FANCN/PALB2 are also recruited to sites of DNA damage (3).				
Background References		1. Alter, B.P. (1996) <i>Am J Hematol</i> 53, 99-110. 2. Fei, P. et al. (2005) <i>Cell Cycle</i> 4, 80-6. 3. Garcia-Higuera, I. et al. (2001) <i>Mol Cell</i> 7, 249-62.				
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		W: Western Blotting				
Cross-Reactivity Key		H: Human Mk: Monkey				
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