#16323 Store at -20C

FANCD2 (D5L5X) Rabbit mAb



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Applications: WB, IP, IF-IC	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 155, 162	Source/Isotype: Rabbit IgG	UniProt ID: #Q9BXW9	Entrez-Gene Id: 2177
Product Usage Information	Ap	plication		Dilution		
	We	estern Blotting		1:1000		
	Imi	munoprecipitation		1:50		
	Im	Immunofluorescence (Immunocytochemistry)			1:100 - 1:400	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20 °C. Do not aliquot the antibody.				
Specificity / Sensitivity		FANCD2 (D5L5X) Rabbit mAb recognizes endogenous levels of total FANCD2 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly995 of human FANCD2 protein.				
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, 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 Ref	2. F 3. N 4. G	 Alter, B.P. (1996) Am J Hematol 53, 99-110. Fei, P. et al. (2005) Cell Cycle 4, 80-6. Nalepa, G. and Clapp, D.W. (2014) F1000Prime Rep 6, 23. Garcia-Higuera, I. et al. (2001) Mol Cell 7, 249-62. Garcia-Higuera, I. et al. (2001) Mol Cell 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

WB: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)

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

A. Aeriopia Z. Zephanari B. Bovine Dy. doy Py. 1995C. 3. Cerevisiae Ce. C. elegans III. Hor

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

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