e at -20C	FANCB (D9W6S) Rabbit mAb		Cell Signaling		
Store at		Orders:	877-616-CELL (2355) orders@cellsignal.com		
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#		3 Trask Lane Danver	ne Danvers Massachusetts 01923 USA		

Applications: WB	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 90	Source/Isotype: Rabbit IgG	UniProt ID: #Q8NB91	Entrez-Gene Id: 2187	
Product Usage Information		plication			Dilution 1:1000		
Storage	Sup	Western Blotting 1:1000 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. <i>Do not aliquot the antibody.</i>					
Specificity / Sensit		FANCB (D9W6S) Rabbit mAb recognizes endogenous levels of total FANCB protein.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro280 of human FANCB 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). FANCB is an X-linked member of the FA nuclear complex (FANCA, FANCB, FANCC, FANCE, FANCF, FANCG, FANCM). In response to DNA damage, the FA nuclear complex induces mono-ubiquitination of FANCD2 and FANCI (2). FANCJ/BRIP1, FANCD1/BRCA2, and FANCN/PALB2 are then recruited to sites of DNA damage along with other DNA repair proteins. FA signaling is important in maintenance of chromosome stability and control of mitosis (3).					
		dies of FANCB knock ICD2 foci at chromos	-	stem cells suggest a role NA damage (4).	e for FANCB in the forr	nation of Rad51 and	
Background Refer	2. F 3. N	lter, B.P. (1996) <i>Am</i> ei, P. et al. (2005) <i>Ce</i> alepa, G. and Clapp im, T.M. et al. (2011)	e <i>ll Cycle</i> 4, 80-6. , D.W. (2014) <i>F1</i>	.000Prime Rep 6, 23.			
Species Reactivity	Spec	Species reactivity is determined by testing in at least one approved application (e.g., western blot).					
Western Blot Buffe		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 k	X: X	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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FANCB (D9W6S) Rabbit mAb (#14243) Datasheet Without Images Cell Signaling Technology

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