#9201 Store at -20C

CtIP (D76F7) Rabbit mAb



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Applications: WB	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 110	Source/Isotype: Rabbit IgG	UniProt ID: #Q99708	Entrez-Gene Id: 5932	
Product Usage Information	Ap	Application		Dilution			
	We	estern Blotting			1:1000		
Storage		•	(1	7.5), 150 mM NaCl, 100 $\mu g/ml$ BSA, 50% glycerol and less than onot aliquot the antibody.			
Specificity / Sensitivity		CtIP (D76F7) Rabbit mAb recognizes endogenous levels of total CtIP protein.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human CtIP protein.					
Background	CtIF CtB (DS gen (rev	DNA damage checkpoints are critical for regulated repair of damaged DNA and genome maintenance. CtIP/RBBP8 (CtBP-interacting protein), initially characterized as a binding partner for the trancription factor CtBP, has emerged as a regulator of both cell cycle progression and repair of DNA double strand breaks (DSB). Along with the DSB-sensing MRN complex (MRE11-RAD50-NBS1), CtIP functions in the generation of single stranded DNA at DSBs, a process required for signaling to DNA repair machinery (reviewed in 1). CtIP is thought to be critical in the transition between sensing of DSBs and repair by homologous recombination (HR) (2,3).					
	bee	In addition to HR, DSBs can also be repaired through nonhomologous end joining (NHEJ), and CtIP has been shown to have a role in signaling to the NHEJ pathway independently of its function in DSB end resection (4).					
		CtIP is also involved in cellular tolerence of topoisomerase inhibitors camptothecin and etoposide, which are used to treat cancer through their ability to introduce DSBs in cycling cells (5).					
Background Refere	1. You, Z. and Bailis, J.M. (2010) <i>Trends</i> 2. You, Z. et al. (2009) <i>Mol Cell</i> 36, 954-6 3. Eid, W. et al. (2010) <i>EMBO Rep</i> 11, 96 4. Quennet, V. et al. (2010) <i>Nucleic Acids</i> 5. Nakamura, K. et al. (2010) <i>PLoS Gene</i>				69. 62-8. s Res, Epub ahead of print.		

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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key WB: Western Blotting

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

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

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