Store at -20C

#4120

Microcephalin-1/BRIT1 (D38G5) Rabbit mAb

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

Applications: WB	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 100	Source/Isotype: Rabbit IgG	UniProt ID: #Q8NEM0	Entrez-Gene Id: 79648	
Product Usage Information	-	oplication estern Blotting			Dilution 1:1000		
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 / Sens		Microcephalin-1/BRIT1 (D38G5) Rabbit mAb detects endogenous levels of total Microcephalin-1/BRIT1 protein.					
Source / Purificat		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to central residues of human Microcephalin-1/BRIT1.					
Background	the dar dar sup BR req	Microcephalin-1 (MCPH1)/BRIT1 is an early DNA damage response protein named for its mutated state in the human disease primary microcephaly. BRIT1 forms damage-induced nuclear foci, is involved in DNA damage and cell cycle checkpoints as well as regulation of mitosis. BRIT1 function is necessary for DNA damage responses, and the absence of BRIT1 function leads to genome instability. A potential tumor suppressor, BRIT1 expression is reduced in human carcinomas (1-2, reviewed in 3). BRIT1 colocalizes with other DNA repair proteins (53BP1, MDC1, NBS1, ATM, RPA, and ATR) and is required for their activation (2). BRIT1 likely regulates DNA repair through chromatin remodeling in response to DNA damage, allowing access of repair proteins to DNA (4).					
Background Refe	2. F 3. C	in, S.Y. et al. (2005) Rai, R. et al. (2006) C Chaplet, M. et al. (200 Peng, G. et al. (2009)	ancer Cell 10, 1 06) Cell Cycle 5,	2579-83.			
Species Reactivit	y Spe	cies reactivity is dete	rmined by testing	g in at least one approve	ed application (e.g., w	restern blot).	
Western Blot Buf		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	X: X		B: bovine Dg: d	Mk: monkey Vir: virus N og Pg: pig Sc: S. cerevi es expected		-	
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