

#3543
Store at -20°C

Bit1 Antibody



Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB	H	Endogenous	19, 21	Rabbit	#Q9Y3E5	51651

Product Usage Information	Application Western Blotting	Dilution 1:1000
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.	
Specificity / Sensitivity	Bit1 Antibody detects endogenous levels of total human Bit1 protein. It also detects overexpressed bovine Bit1 and may detect overexpressed levels of mouse and rat Bit1.	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues within a central region of Bit1. Antibodies were purified by protein A and peptide affinity chromatography.	
Background	Bit1 is a mitochondrial protein discovered as a regulator of anoikis, a process of apoptosis triggered by the loss of cell adhesion to the extracellular matrix (1,2). Like several other mitochondrial apoptotic regulators (Cytochrome c, Smac, HtrA2, AIF, EndoG), Bit1 is released into the cytoplasm during apoptosis (1,3). Cytoplasmic Bit1 associates with the Groucho family of transcriptional regulator AES (1,4). Interaction between Bit1 and AES promotes apoptosis, and this complex is suppressed by integrin mediated cell attachment.	
Background References	1. Jan, Y. et al. (2004) <i>Cell</i> 116, 751-762. 2. Frisch, S.M. and Screaton, R.A. (2001) <i>Curr. Opin. Cell Biol.</i> 13, 555-562. 3. Ekert, P.G. and Vaux, D.L. (2005) <i>Curr. Opin. Cell Biol.</i> 17, 626-630. 4. Chen, G. and Courey, A.J. (2000) <i>Gene</i> 249, 1-16.	

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
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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