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BIRC6 (D8B5) Rabbit mAb



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB	H M R Hm Mk	Endogenous	530	Rabbit IgG	#Q9NR09	57448

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, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.	
Specificity / Sensitivity	BIRC6 (D8B5) Rabbit mAb recognizes endogenous levels of total BIRC6 protein. Several bands of unknown origin between 120 and 500 kDa are detected in some cell lines. It is possible that these bands are degradation products of BIRC6.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp147 in human BIRC6 protein.	
Background	BIRC6/BRUCE/APOLLON is a member of the inhibitor of apoptosis protein (IAP) family. BIRC6 is a huge 530 kDa membrane-associated protein with a single survivin-like baculoviral IAP repeat (BIR) domain at the amino terminus, and a ubiquitin-conjugating enzyme domain at the carboxy terminus (1-3). Several research studies support the notion that BIRC6 functions as a dual regulator of cell death and cell division (4-6), and BIRC6 is the only essential BIR-containing protein in mammalian cell growth and development (4,7). Research studies have documented the overexpression of BIRC6 in colon cancer stem cells and in other cancer cell lines (8,9). BIRC6 inhibits apoptosis by either 1) binding to and inhibiting caspases (10) or 2) ubiquitinating the IAP antagonist SMAC and the apoptosis initiator caspase 9, thereby targeting these proteins for proteasomal degradation (4,5). BIRC6 itself is regulated by ubiquitination and proteasomal degradation upon stimulation of apoptosis (7,11).	
Background References	<ol style="list-style-type: none"> 1. Hauser, H.P. et al. (1998) <i>J Cell Biol</i> 141, 1415-22. 2. Verhagen, A.M. et al. (2001) <i>Genome Biol</i> 2, REVIEWS3009. 3. Martin, S.J. (2004) <i>Nat Cell Biol</i> 6, 804-6. 4. Hao, Y. et al. (2004) <i>Nat Cell Biol</i> 6, 849-60. 5. Qiu, X.B. and Goldberg, A.L. (2005) <i>J Biol Chem</i> 280, 174-82. 6. Pohl, C. and Jentsch, S. (2008) <i>Cell</i> 132, 832-45. 7. Qiu, X.B. et al. (2004) <i>EMBO J</i> 23, 800-10. 8. Van Houdt, W.J. et al. (2011) <i>Mol Cell Proteomics</i> 10, M111.011353. 9. Chen, Z. et al. (1999) <i>Biochem Biophys Res Commun</i> 264, 847-54. 10. Bartke, T. et al. (2004) <i>Mol Cell</i> 14, 801-11. 11. Vaux, D.L. and Silke, J. (2005) <i>Nat Rev Mol Cell Biol</i> 6, 287-97. 	

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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