Store at -20C	BIRC6 (D8B5) Rabbit mAb		Cell Signaling	
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com	
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	Reactivity: H M R Hm Mk	Sensitivity: Endogenous	MW (kDa): 530	Source/Isotype: Rabbit IgG	UniProt ID: #Q9NR09	Entrez-Gene Id 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		9. Chen, Z. et al. (1999 10. Bartke, T. et al. (20	al. (2001) <i>Genome B</i> <i>Nat Cell Biol</i> 6, 804-6 <i>Nat Cell Biol</i> 6, 849 perg, A.L. (2005) <i>J Bio</i> n, S. (2008) <i>Cell</i> 132, 4) <i>EMBO J</i> 23, 800-10 al. (2011) <i>Mol Cell Pi</i> 6) <i>Biochem Biophys</i> 204) <i>Mol Cell</i> 14, 80	<i>iol</i> 2, REVIEWS3009. -60. <i>ol Chem</i> 280, 174-82. 832-45. D. <i>roteomics</i> 10, M111.0113 <i>Res Commun</i> 264, 847-5				
Species Reactiv	/ity	Species reactivity is d	etermined by testin	g in at least one approve	ed 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		W: Western Blotting						
Cross-Reactivity Key		H: Human M: Mouse R: Rat Hm: Hamster Mk: Monkey						
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