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## Noxa (D8L7U) Rabbit mAb



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Applications: W, IP	Reactivity: H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 10	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #Q13794	Entrez-Gene Id: 5366	
Product Usage Information	2	<b>Application</b> Western Blotting Immunoprecipitation			<b>Dilution</b> 1:1000 1:100		
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/Ser	nsitivity	Noxa (D8L7U) Rabbit mAb recognizes endogenous levels of total Noxa protein. This antibody also cross-reacts with multiple unidentified proteins, most notably at 35, 50, and 80 kDa.					
Source / Purifi	cation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human Noxa protein.					
Background		Phorbol-12-myristate-13-acetate-induced protein 1 (PMAIP1, Noxa) is a small protein that plays a key role in mediating apoptotic signaling. Noxa is a pro-apoptotic Bcl-2 family protein that contains a single Bcl-2 homology (BH3) domain (1). Members of the "BH3-only" family (e.g., Noxa, Bad, Bim, Puma, Bid, Bik, and Hrk) are highly regulated proteins that induce apoptosis through BH3-dependent interaction with anti-apoptotic Bcl-2 family proteins (2). Noxa localizes to mitochondria and binds the anti-apoptotic proteins Mcl-1 and A1/Bfl-1, but does not bind to Bcl-2 or Bcl-xL (3). The Noxa protein competes with Mcl-1 for binding to mitochondrial Bak protein. Noxa was originally identified as a phorbol ester inducible protein that is highly expressed in adult T-cell leukemia cell lines (4). Several different stimuli, including DNA damage, hypoxia, interferon, viral infection, and double-stranded RNA, induce Noxa expression in cells. Higher levels of Noxa protein are typically found in hematopoietic cells (3,5,6).					
Background R	eferences	1. Ploner, C. et al. (2008) <i>Oncogene</i> 27 Suppl 1, S84-92. 2. Bouillet, P. and Strasser, A. (2002) <i>J Cell Sci</i> 115, 1567-74. 3. Oda, E. et al. (2000) <i>Science</i> 288, 1053-8. 4. Hijikata, M. et al. (1990) <i>J Virol</i> 64, 4632-9. 5. Kim, J.Y. et al. (2004) <i>J Exp Med</i> 199, 113-24. 6. Sun, Y. and Leaman, D.W. (2005) <i>J Biol Chem</i> 280, 15561-8.					
Species Reacti	vity	Species reactivity is de	termined by testin	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot B	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 K	ley	W: Western Blotting IP: Immunoprecipitation					
Cross-Reactivi	ty Key	H: Human					
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