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୍ଦୁ RIP3 (D40	62A) Rabb	oit mAb	ıAb			CHNOLOGY®	
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For Research Use Only. Not for Use in Diagnostic Procedures.							
Applications: WB, W-S, IP, IF-IC, FC- FP	Reactivity: M	Sensitivity: Endogenous	MW (kDa): 46-62	Source/Isotype: Rabbit IgG	UniProt ID: #Q9QZL0	Entrez-Gene Id: 56532	

Product Usage	Application	Dilution				
Information	Western Blotting	1:1000				
	Simple Western™	1:10 - 1:50				
	Immunoprecipitation	1:100				
	Immunofluorescence (Immunocytochemistry)	1:400 - 1:1600				
	Flow Cytometry (Fixed/Permeabilized)	1:800 - 1:1600				
Storage	ug/ml BSA, 50% glycerol and less than					
	For a carrier free (BSA and azide free) version of this product see product #74771.					
Specificity / Sensitivity	RIP3 (D4G2A) Rabbit mAb recognizes endogenous levels of total RIP3 protein from mouse.					
Source / Purification	urification Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val370 of mouse RIP3 protein.					

3/23/24, 10:33 AM	RIP3 (D4G2A) Rabbit mAb (#95702) Datasheet Without Images Cell Signaling Technology
Background	The receptor-interacting protein (RIP) family of serine-threonine kinases (RIP, RIP2, RIP3, and RIP4) are important regulators of cellular stress that trigger pro-survival and inflammatory responses through the activation of NF-kB, as well as pro-apoptotic pathways (1). In addition to the kinase domain, RIP contains a death domain responsible for interaction with the death domain receptor Fas and recruitment to TNF-R1 through interaction with TRADD (2,3). RIP-deficient cells show a failure in TNF-mediated NF-kB activation, making the cells more sensitive to apoptosis (4,5). RIP also interacts with TNF-receptor-associated factors (TRAFs) and can recruit IKKs to the TNF-R1 signaling complex via interaction with NEMO, leading to IkB phosphorylation and degradation (6,7). Overexpression of RIP induces both NF-kB activation and apoptosis (2,3). Caspase-8-dependent cleavage of the RIP death domain can trigger the apoptotic activity of RIP (8). Receptor-interacting protein 3 (RIP3) was originally found to interact with RIP and the TNF receptor complex to induce apoptosis and activation of NF-kB (9,10). It has subsequently been shown that the association between RIP and RIP3 is a key component of a signaling pathway that results in programmed necrosis (necroptosis), a necrotic-like cell death induced by TNF in the presence of caspase inhibitors (11- 13). RIP3 is phosphorylated at Ser227 and targets the phosphorylation of mixed lineage kinase domain- like protein (MLKL), which is critical for necroptosis (14).
Background References	 Meylan, E. and Tschopp, J. (2005) <i>Trends Biochem Sci</i> 30, 151-9. Hsu, H. et al. (1996) <i>Immunity</i> 4, 387-96. Stanger, B.Z. et al. (1995) <i>Cell</i> 81, 513-23. Ting, A.T. et al. (1996) <i>EMBO J</i> 15, 6189-96. Kelliher, M.A. et al. (1998) <i>Immunity</i> 8, 297-303. Devin, A. et al. (2000) <i>Immunity</i> 12, 419-29. Zhang, S.Q. et al. (2000) <i>Immunity</i> 12, 301-11. Lin, Y. et al. (1999) <i>Genes Dev</i> 13, 2514-26. Yu, P.W. et al. (1999) <i>Curr Biol</i> 9, 539-42. Sun, X. et al. (2009) <i>Science</i> 325, 332-6. He, S. et al. (2009) <i>Cell</i> 137, 1100-11. Cho, Y.S. et al. (2009) <i>Cell</i> 137, 1112-23. Sun, L. et al. (2012) <i>Cell</i> 148, 213-27.
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 W-S: Simple Western™ IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)
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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