

#4364 Store at -20°C

Phospho-RIP2 (Ser176) Antibody



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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB, IP	H	Endogenous	61	Rabbit	#O43353	8767

Product Usage Information	Application Western Blotting Immunoprecipitation	Dilution 1:1000 1:50
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	Phospho-RIP2 (Ser176) Antibody detects endogenous levels of RIP2 only when phosphorylated at Ser176. Background bands of unknown origin and higher molecular weight are detected.	
Species predicted to react based on 100% sequence homology:	Rat	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a phosphopeptide corresponding to residues surrounding Ser176 of human RIP2. Antibodies are purified by protein A and affinity chromatography.	
Background	Receptor Interacting Protein 2 (RIP2) is a serine/threonine kinase with a carboxy-terminal caspase activation and recruitment domain (CARD). Association of RIP2 with the tumor necrosis factor receptor (TNFR) causes activation of NF-κB and induction of apoptosis (1-3). Expression of RIP2 is induced in macrophages upon exposure to bacterial cell wall components, such as LPS. RIP2-deficient mouse models demonstrate that this kinase integrates and transduces signals for both the innate and adaptive immune system (4,5). Serine 176 is a regulatory autophosphorylation site and can be used to monitor the activation state of RIP2 (6).	
Background References	1. Inohara, N. et al. (1998) <i>J Biol Chem</i> 273, 12296-300. 2. McCarthy, J.V. et al. (1998) <i>J Biol Chem</i> 273, 16968-75. 3. Thome, M. et al. (1998) <i>Curr Biol</i> 8, 885-8. 4. Chin, A.I. et al. (2002) <i>Nature</i> 416, 190-4. 5. Kobayashi, K. et al. (2002) <i>Nature</i> 416, 194-9. 6. Dorsch, M. et al. (2006) <i>Cell. Signal.</i> 18, 2223-2229.	

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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	WB: Western Blotting IP: Immunoprecipitation
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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