

Store at  
-20C  
#14397**Phospho-RIP2 (Ser176) (E1I9J) Rabbit mAb**

**Orders:** 877-616-CELL (2355)  
orders@cellsignal.com

**Support:** 877-678-TECH (8324)

**Web:** info@cellsignal.com  
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

**Product Usage Information****Application**

Western Blotting  
Immunoprecipitation

**Dilution**

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/Sensitivity**

Phospho-RIP2 (Ser176) (E1I9J) Rabbit mAb recognizes endogenous levels of RIP2 protein only when phosphorylated at Ser176. This antibody also cross-reacts with unidentified proteins of approximately 25 kDa and 38 kDa in some cell lines.

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser176 of human RIP2 protein.

**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). The RIP2 Ser176 residue serves as a regulatory autophosphorylation site and can be used to monitor the activation state of RIP2 (6).

**Background References**

1. Inohara, N. et al. (1998) *J Biol Chem* 273, 12296-300.
2. McCarthy, J.V. et al. (1998) *J Biol Chem* 273, 16968-75.
3. Thome, M. et al. (1998) *Curr Biol* 8, 885-8.
4. Chin, A.I. et al. (2002) *Nature* 416, 190-4.
5. Kobayashi, K. et al. (2002) *Nature* 416, 194-9.
6. Dorsch, M. et al. (2006) *Cell Signal* 18, 2223-9.

**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**

**W:** Western Blotting **IP:** Immunoprecipitation

**Cross-Reactivity Key**

**H:** Human

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