



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

Store at -20C
#4364

Phospho-RIP2 (Ser176) Antibody

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

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

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

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human

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