



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
#4142

RIP2 (D10B11) Rabbit mAb

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

Applications: W	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 62	Source/Isotype: Rabbit IgG	UniProt ID: #O43353	Entrez-Gene Id: 8767
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Product Usage Information

Application

Western Blotting

Dilution

1:1000

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

RIP2 (D10B11) Rabbit mAb recognizes endogenous levels of total RIP2 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus 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).

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.

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

W: Western Blotting

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat **Mk:** Monkey

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