Store at -20°C

#66241

Cleaved RIP (Asp324) (D5P6D) Rabbit mAb (Biotinylated)

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New 02/19

Entrez-Gene ID #8737
UniProt ID #Q13546

For Research Use Only. Not For Use In Diagnostic Procedures.

Applications	Species Cross-Reactivity	Isotype
W Endogenous	H	Rabbit IgG

Description: This Cell Signaling Technology antibody is conjugated to biotin under optimal conditions. The biotinylated antibody is expected to exhibit the same species cross-reactivity as the unconjugated Cleaved RIP (Asp324) (D5P6D) Rabbit mAb #77565.

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-κB, 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-κB 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 IκB phosphorylation and degradation (6,7). Overexpression of RIP induces both NF-κB activation and apoptosis (2,3). Caspase-8-dependent cleavage of the RIP death domain can trigger the apoptotic activity of RIP (8).

Background References:

(1) Meylan, E. and Tschopp, J. (2005) *Trends Biochem Sci* 30, 151-9.

(2) Hsu, H. et al. (1996) *Immunity* 4, 387-96.

(3) Stanger, B.Z. et al. (1995) *Cell* 81, 513-23.

(4) Ting, A.T. et al. (1996) *EMBO J* 15, 6189-96.

(5) Kelliher, M.A. et al. (1998) *Immunity* 8, 297-303.

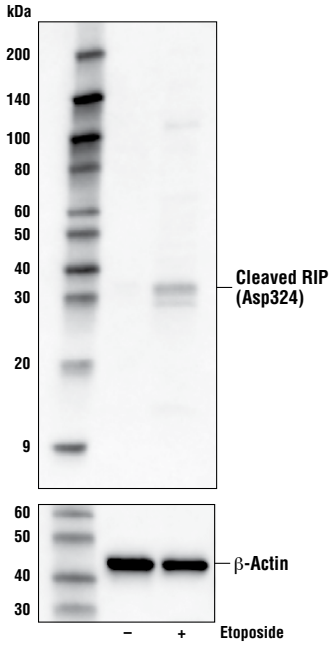
(6) Devin, A. et al. (2000) *Immunity* 12, 419-29.

(7) Zhang, S.Q. et al. (2000) *Immunity* 12, 301-11.

(8) Lin, Y. et al. (1999) *Genes Dev* 13, 2514-26.

Specificity/Sensitivity: Cleaved RIP (Asp324) (D5P6D) Rabbit mAb (Biotinylated) recognizes endogenous levels of the amino-terminal end of RIP protein only when cleaved at Asp324.

Source/Purification: Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp324 of human RIP protein.



Western blot analysis of extracts from Jurkat cells, untreated (-) or treated with Etoposide #2200 (25 µM, overnight; +), using Cleaved RIP (Asp324) (D5P6D) Rabbit mAb (Biotinylated) (upper) or β-Actin (D6A8) Rabbit mAb #8457 (lower).

Storage: Supplied in 136 mM NaCl, 2.6 mM KCl, 12 mM sodium phosphate (pH 7.4) dibasic, 2 mg/ml BSA, and 50% glycerol. Store at –20°C. *Do not aliquot the antibody.*

Biotinylated antibodies are designed to be detected using streptavidin or anti-biotin antibody conjugates.

Recommended Antibody Dilutions:

Western blotting	1:1000

For product specific protocols and a complete listing of recommended companion products please see the product web page at www.cellsignal.com.

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IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween®20 at 4°C with gentle shaking, overnight.

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Applications: **W**—Western **IP**—Immunoprecipitation **IHC**—Immunohistochemistry **ChIP**—Chromatin Immunoprecipitation **IF**—Immunofluorescence **F**—Flow cytometry **E-P**—ELISA-Peptide **Species Cross-Reactivity:** **H**—human **M**—mouse **R**—rat **Hm**—hamster **Mk**—monkey **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 **All**—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.