

Phospho-REPS1 (Ser709) (D8C1) 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: W, IP	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 125	Source/Isotype: Rabbit IgG	UniProt ID: #Q96D71	Entrez-Gene Id: 85021
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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-REPS1 (Ser709) (D8C1) Rabbit mAb recognizes endogenous levels of REPS1 protein only when phosphorylated at Ser709.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser709 of human REPS1 protein.

Background

REPS1 is a RaBP1-associated EH-homology domain containing protein. The sequence of REPS1 has an EH domain, followed by two proline-rich segments, and a C-terminal coiled-coil domain for binding to RaBP1 (1). The EH domain of REPS1 interacts with the NPF motif of Rab11-FIP2, mediates their colocalization to endosome vesicles, and influences EGFR endocytosis (2). The two proline-rich regions of REPS1 are important for binding to the SH3 domain of GRK/GRB2 and further regulate EGFR downstream signaling. The proline-rich regions of REPS1 have also been shown to interact with the SH3 domain of intersectin1 (ITSN1) and contribute to ITSN1/SGIP1/REPS1 complex formation on clathrin-coated pits (3). Three alternatively spliced isoforms of REPS1 have been identified. Phosphorylation of REPS1 at Ser709 was identified at Cell Signaling Technology using PTMScan® Technology, our LC-MS/MS platform for phosphorylation site discovery (4).

Background References

1. Yamaguchi, A. et al. (1997) *J Biol Chem* 272, 31230-4.
2. Cullis, D.N. et al. (2002) *J Biol Chem* 277, 49158-66.
3. Dergai, O. et al. (2010) *Biochem Biophys Res Commun* 402, 408-13.
4. Rush, J. et al. (2005) *Nat Biotechnol* 23, 94-101.

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 **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human **Mk:** Monkey

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