Phospho-REPS1 (Ser709) (D8C1) Rabbit mAb

✓ 100 μl (10 western blots)



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Applications	Species Cross-Reactivity*	Molecular Wt.	Isotype	
W, IP	H, Mk	125 kDa	Rabbit IgG**	

Background: REPS1 is a RalBP1-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 RalBP1 (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.

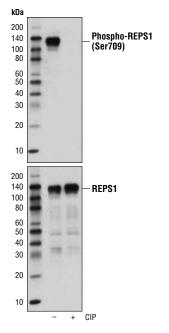
Phosphorylation of REPS1 at Ser709 was identified at Cell Signaling Technology using PTMScan® Technology, our LC-MS/MS platform for phosphorylation site discovery (4).

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 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.



Western blot analysis of extracts from Jurkat cells, untreated (-) or calf intestinal phosphatase (CIP)-treated (+), using Phospho-REPS1 (Ser709) (D8C1) Rabbit mAb (upper) or REPS1 (D6F4) Rabbit mAb #6404 (lower).

Entrez-Gene ID #85021 Swiss-Prot Acc. #Q96D71

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.

*Species cross-reactivity is determined by western blot.

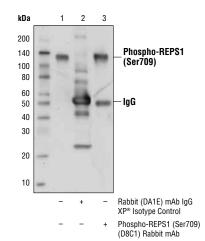
**Anti-rabbit secondary antibodies must be used to detect this antibody.

Recommended Antibody Dilutions:

Western blotting 1:1000 Immunoprecipitation 1:100

For product specific protocols please see the web page for this product at www.cellsignal.com.

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Immunoprecipitation of phospho-REPS1 (Ser709) from Jurkat cell extracts, using Rabbit (DA1E) mAb IgG XP® Isotype Control #3900 (lane 2) or Phospho-REPS1 (Ser709) (D8C1) Rabbit mAb (lane 3). Lane 1 is 10% input. Western blot analysis was performed using Phospho-REPS1 (Ser709) (D8C1) Rabbit mAb.

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.