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## REPS1 (D6F4) Rabbit mAb

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

<b>Applications:</b> W, IP	<b>Reactivity:</b> H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 125	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #Q96D71	<b>Entrez-Gene Id:</b> 85021
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### Product Usage Information

#### Application

Western Blotting  
Immunoprecipitation

#### Dilution

1:1000  
1:200

### 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

REPS1 (D6F4) Rabbit mAb recognizes endogenous levels of total REPS1 protein.

### Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asn189 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.

### 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.

### 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

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