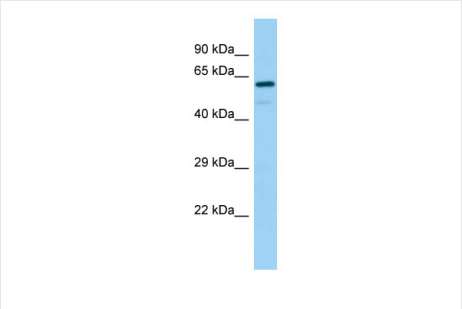
REPS2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	REPS2, Polyclonal Antibody
Full Product Name	REPS2 Antibody - C-terminal region
Product Gene Name	anti-REPS2 antibody
Immunogen Sequence	Synthetic peptide located within the following region: KDVLYSQPPS KPIRRKFRPE NQATENQEPS TAASGPASAA TMKPHPTVQK
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Cow, Dog, Guinea Pig, Horse, Human, Mouse, Pig, Rabbit, Rat
Form/Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Purity/Purification	Affinity Purified
Preparation and Storage	For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	REPS2 peptide (MBS3241532) is used for blocking the activity of REPS2 antibody (MBS3216632)
Molecular Weight	57kDa
OMIM	300317
3D Structure	ModBase 3D Structure for Q8NFH8
Homology	Cow: 100%; Dog: 80%; Guinea Pig: 79%; Horse: 100%; Human: 100%; Mouse: 83%; Pig: 100%; Rabbit: 93%; Rat: 86%
Immunogen	The immunogen is a synthetic peptide directed towards the C-terminal region of Human REPS2
Product Categories/Family for anti-REPS2 antibody	Polyclonal; Signaling Intermediate; Membrane & Traffic
Applications Tested/Suitable for anti-REPS2 antibody	Western Blot (WB)
Related Product Information for anti-REPS2 antibody	This is a rabbit polyclonal antibody against REPS2. It was validated on Western Blot Target Description: The product of this gene is part of a protein complex that regulates the endocytosis of growth factor receptors. The encoded protein directly interacts with a GTPase activating protein that functions downstream of the small G protein Ral. Its expression can negatively affect receptor internalization and inhibit growth factor signaling. Multiple transcript variants encoding different isoforms have been found for this gene.
Other Notes	Small volumes of anti-REPS2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for REPS2 purchase	MBS3216632 is an antibody targeting REPS2. Also known as REPS2 Antibody - C-terminal region. Reactive in Cow, Dog, Guinea Pig, Horse, Human, Mouse, Pig, Rabbit, Rat. Host: Rabbit.



Western Blot (WB) of anti-REPS2 antibody
Host: RabbitTarget Name: REPS2Sample Type: 721_B Whole Cell lysatesAntibody Dilution: 1.0ug/mlREPS2 is supported by BioGPS gene expression data to be expressed in 721_B

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for REPS2. It may not necessarily be applicable to this product.

NCBI GI #	125625322
NCBI GeneID	9185
NCBI Accession #	NP_001074444.1
UniProt Primary Accession #	Q8NFH8
UniProt Related Accession #	Q8NFH8
GenBank Nucleotide #	NM_001080975.1
NCBI Official Full Name	ralBP1-associated Eps domain-containing protein 2 isoform 2
NCBI Official Synonym Full Names	RALBP1 associated Eps domain containing 2
NCBI Official Symbol	REPS2
NCBI Official Synonym Symbols	POB1
UniProt Protein Name	RalBP1-associated Eps domain-containing protein 2
UniProt Synonym Protein Names	Partner of RalBP1; RalBP1-interacting protein 2
Protein Family	RalBP1-associated Eps domain-containing protein
UniProt Gene Name	REPS2
UniProt Synonym Gene Names	POB1
UniProt Entry Name	REPS2_HUMAN
NCBI Protein Information	ralBP1-associated Eps domain-containing protein 2
NCBI Summary for REPS2	The product of this gene is part of a protein complex that regulates the endocytosis of growth factor receptors. The encoded protein directly interacts with a GTPase activating protein that functions downstream of the small G protein Ral. Its expression can negatively affect receptor internalization and inhibit growth factor signaling. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

UniProt Comments for REPS2	REPS2: an adaptor protein involved in growth factor signaling through its influence on the Ral, a small G protein that regulates endocytosis of EGF and insulin receptors. Interacts with DDEF1, paxillin, RALBP1 and GRB2. Binding to RALBP1 does not affect the Ral-binding activity of the latter. Forms a ternary complex with activated Ral and RALBP1. Binds epsin 1. Relatively highly expressed in androgen-dependent as compared to androgen-independent prostate cancer cell lines and xenografts. EGF receptor internalization and signalling is inhibited by increased expression of REPS2. EGF stimulates phosphorylation on Tyr-residues and induces complex formation with EGF receptor through an adapter protein such as GRB2. Two alternatively spliced isoforms have been described. Isoform 2 is down-regulated during progression of prostate cancer. Protein type: Adaptor/scaffold; G protein regulator, misc. Chromosomal Location of Human Ortholog: Xp22.2 Cellular Component: cytoplasm Molecular Function: protein binding; calcium ion binding Biological Process: epidermal growth factor receptor signaling pathway; protein complex assembly
Research Articles on REPS2	**1.** miR-675-5p might play an oncogenic role in esophageal squamous cell carcinoma (ESCC) through RalBP1/RAC1/CDC42 signaling pathway by inhibiting REPS2 and might serve as a valuable prognostic biomarker and therapeutic target for ESCC patients.
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