REP-2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	REP-2, Polyclonal Antibody
Full Product Name	REP-2 Polyclonal Conjugated Antibody
Product Gene Name	anti-REP-2 antibody
Product Synonym Names	CHML; REP2; Rab proteins geranylgeranyltransferase component A 2; Choroideraemia-like protein; Rab escort protein 2; REP-2
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Specificity	REP-2 polyclonal antibody detects endogenous levels of REP-2 protein.
Preparation and Storage	Store at 4 degree C for 6 months.
Molecular Weight	74,071 Da
Chromosome Location	Chromosome: 1; NC_000001.10 (241792166..241799232, complement). Location: 1q42-qter
OMIM	118825
3D Structure	ModBase 3D Structure for P26374
Immunogen	Synthesized peptide derived from the Internal region of human REP-2.
Conjugation	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Excitation Emission	AF350: 346nm/442nm
Applications Tested/Suitable for anti-REP-2 antibody	Most Applications
Application Notes for anti-REP-2 antibody	Suggested Dilution: AF350 conjugated: most applications: 1:50-1:250 AF405 conjugated: most applications: 1:50-1:250 AF488 conjugated: most applications: 1:50-1:250 AF555 conjugated: most applications: 1:50-1:250 AF594 conjugated: most applications: 1:50-1:250 AF647 conjugated: most applications: 1:50-1:250 AF680 conjugated: most applications: 1:50-1:250 AF750 conjugated: most applications: 1:50-1:250 Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1:50-1:1000
Related Product Information for anti-REP-2 antibody	MBS9450073 is an antibody targeting REP-2. Also known as REP-2 Polyclonal Conjugated Antibody. Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-REP-2 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for REP-2. It may not necessarily be applicable to this product.

NCBI GI #	53832014
NCBI GeneID	1122
NCBI Accession #	NP_001812.2
UniProt Primary Accession #	P26374
UniProt Secondary Accession #	Q17RE0; Q9H1Y4; B2RAB9
UniProt Related Accession #	P26374
GenBank Nucleotide #	NM_001821.3
NCBI Official Full Name	rab proteins geranylgeranyltransferase component A 2
NCBI Official Synonym Full Names	choroideremia-like (Rab escort protein 2)
NCBI Official Symbol	CHML
NCBI Official Synonym Symbols	REP2
UniProt Protein Name	Rab proteins geranylgeranyltransferase component A 2
UniProt Synonym Protein Names	Choroideremia-like protein; Rab escort protein 2
Protein Family	Rab proteins geranylgeranyltransferase component
UniProt Gene Name	CHML
UniProt Synonym Gene Names	REP2; REP-2
UniProt Entry Name	RAE2_HUMAN
NCBI Protein Information	rab proteins geranylgeranyltransferase component A 2; choroideremia-like protein; choroideraemia-like protein
NCBI Summary for REP-2	The product of the CHML gene supports geranylgeranylation of most Rab proteins and may substitute for REP-1 in tissues other than retina. CHML is localized close to the gene for Usher syndrome type II. [provided by RefSeq, Jul 2008]
UniProt Comments for REP-2	CHML: Binds unprenylated Rab proteins, presents it to the catalytic Rab GGTase dimer, and remains bound to it after the geranylgeranyl transfer reaction. The component A is thought to be regenerated by transferring its prenylated Rab back to the donor membrane. Less effective than REP-1 in supporting prenylation of Rab3 family. Belongs to the Rab GDI family. Chromosomal Location of Human Ortholog: 1q43 Cellular Component: nucleoplasm; Rab-protein geranylgeranyltransferase complex; cytoplasm; cytosol Molecular Function: GTPase activator activity; Rab GTPase binding; Rab-protein geranylgeranyltransferase activity Biological Process: protein geranylgeranylation; intracellular protein transport; positive regulation of GTPase activity
Research Articles on REP-2	**1.** Polymorphisms in the OPN3 and CHML genes are associated with asthma and atopic asthma.
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