CHML Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CHML, Polyclonal Antibody
Full Product Name	CHML (Rab Proteins Geranylgeranyltransferase Component A 2, Choroideraemia-like Protein, Rab Escort Protein 2, REP-2, REP2) (MaxLight 750)
Product Gene Name	anti-CHML antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human CHML.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo
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	Full length human CHML, aa1-656 (NP_001812.2).
Immunogen Sequence	MADNLPTEFDVVIIGTGLPESILAAACSRSGQRVLHIDSRSYYGGNWASFSFSGLLSWLKEYQQNNDIGEESTVVWQDLIHETEEAITLRKKDETIQHTEAF
Conjugate	MaxLight750
Note	Preservative Free
Product Categories/Family for anti-CHML antibody	Antibodies; Neuroscience
Applications Tested/Suitable for anti-CHML antibody	Western Blot (WB)
Application Notes for anti-CHML antibody	Applications are based on unconjugated antibody.

Related Product Information for anti-CHML antibody	Binds unprenylated Rab proteins, presents it to the catalytic Rab GGTase dimer, and remains bound to it after the geranylgeranyl transfer reaction. The
Other Notes	Small volumes of anti-CHML antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necess
Searchable Terms for CHML purchase	MBS6373904 is an antibody targeting CHML. Also known as CHML (Rab Proteins Geranylgeranyltransferase Component A 2, Choroideraemia-like Pro

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CHML. 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 CHML	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 CHML	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 CHML	**1.** Polymorphisms in the OPN3 and CHML genes are associated with asthma and atopic asthma.

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