



Chm, Choroideremia polyclonal antibody

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Box 1 | Basic Info

Cat. No.	ABP-PAB-10574
Animal ID	RB0131-0132
Host	Rabbit
Reactivity	Rat
Format	Purified
Accession number	NM_017067
Amount	100 µg

Alternative Name(s):

TCD homolog, GGTA homolog, DXS540 homolog, Rab escort protein 1, REP-1

The rat choroideremia (CHM) protein, also called Rab escort protein-1 (REP1), is a GDP dissociation inhibitor protein which seems to be involved in membrane trafficking. The ternary complex of RabGGTase with REP-1 is stabilized by a hydrolysis-resistant phosphoisoprenoid analog--farnesyl phosphonyl (methyl) phosphonate.

Buffers

Purified rabbit polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column and eluted out with both high and low pH buffers and neutralized immediately after elution then followed by dialysis against PBS.

Immunogen

KLH conjugated synthetic peptide comprised of amino acids 164 - 180 [PGPESSPEVNDAEATGK] of the rat choroideremia (Chm) protein.

Application

Tested by peptide-specific ELISA (1:1,000).

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C. Avoid repeated freeze-thaw cycles.

References:

1. Rak A, Reents R, Pylypenko O, Niculae A, Sidorovitch V, Thoma NH, Waldmann H, Schlichting I, Goody RS, Alexandrov K: Crystallization and preliminary X-ray diffraction analysis of the Rab escort protein-1 in complex with Rab geranylgeranyltransferase. *J. Struct. Biol.* 136(2): 158-161 (2001).
2. van Bokhoven H, van den Hurk JA, Bogerd L, Philippe C, Gilgenkrantz S, de Jong P, Ropers HH, Cremers FP: Cloning and characterization of the human choroideremia gene. *Hum. Mol. Genet.* 3 (7): 1041-1046 (1994).
3. Seabra MC, Brown MS, Goldstein JL: Retinal degeneration in choroideremia: deficiency of rab geranylgeranyl transferase. *Science* 259 (5093): 377-381 (1993).
4. Andres DA, Seabra MC, Brown MS, Armstrong SA, Smeland TE, Cremers FP, Goldstein JL: cDNA cloning of component A of Rab geranylgeranyl transferase and demonstration of its role as a Rab escort protein. *Cell* 73(6): 1091-1099 (1993).
5. Molloy CM, van de Pol TJ, Brohet RM, Ropers HH, Cremers FP: Three RFLPs for pZ11 (DXS540) in the choroideremia gene at Xq21.2. *Nucleic Acids Res.* 20 (6): 1434 (1992).
6. Merry DE, Janne PA, Landers JE, Lewis RA, Nussbaum RL: Isolation of a candidate gene for choroideremia. *Proc. Natl. Acad. Sci. U.S.A.* 89 (6): 2135-2139 (1992).
7. Cremers FP, van de Pol DJ, van Kerkhoff LP, Wieringa B, Ropers HH: Cloning of a gene that is rearranged in patients with choroideraemia. *Nature* 347 (6294): 674-677 (1990).