The myotubularin-related protein 1 (Mtmr1) belongs to a highly conserved family of eucaryotic phosphatases which consists of at least 11 members in rodents and primates. The founder member, MTM1, is mutated in Xlinked myotubular myopathy, a severe congenital disorder that affects skeletal muscle, and codes for myotubularin, a specific phosphatidylinositol 3-phosphate [PI(3)P] phosphatase. MTM1 and MTMR1 are adjacent on the X chromosome, and the corresponding proteins share 59% sequence identity. Mtmr1 plays an important role in skeletal muscle cell development and differentiation. MTMR1 and myotubularin efficiently dephosphorylate PI(3)P in vitro.

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 17 - 33 [CEGAGGPGPGPGASWRP] of the mouse myotubularin-related protein 1 (Mtmr1) 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 a -20°C. Avoid repeated freeze-thaw cycles.

References: