Recombinant Human MTMR3 cell lysate

Cat. No. MTMR3-1148HCL **Lot. No.** (See product label)

SPECIFICATION

Species	Human
Description	This gene encodes a member of the myotubularin dual specificity protein phosphatase gene family. The encoded protein is structurally similar to myotubularin but in addition contains a FYVE domain and an N-terminal PH-GRAM domain. The protein can self-associate and also form heteromers with another myotubularin related protein. The protein binds to phosphoinositide lipids through the PH-GRAM domain, and can hydrolyze phosphatidylinositol(3)-phosphate and phosphatidylinositol(3,5)-biphosphate in vitro. The encoded protein has been observed to have a perinuclear, possibly membrane-bound, distribution in cells, but it has also been found free in the cytoplasm. Multiple transcript variants encoding different isoforms have been found for this gene.
Size	100 ul
Storage Buffer	1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)
Applications	Western Blot;

GENE INFORMATION

Gene Name	MTMR3 myotubularin related protein 3 [Homo sapiens]
Official Symbol	MTMR3

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Synonyms	MTMR3; myotubularin related protein 3; myotubularin-related protein 3; FYVE DSP1; KIAA0371; ZFYVE10; zinc finger, FYVE domain containing 10; zinc finger FYVE domain-containing protein 10; FYVE domain-containing dual specificity protein phosphatase 1; FYVE (Fab1 YGLO23 Vsp27 EEA1 domain) dual-specificity protein phosphatase; FYVE-DSP1; FLJ32333;
Gene ID	8897
mRNA Refseq	NM_021090
Protein Refseq	NP_066576
MIM	603558
UniProt ID	Q13615
Chromosome Location	22q12.2
Pathway	3-phosphoinositide degradation, organism-specific biosystem; 3-phosphoinositide degradation, conserved biosystem; D-myo-inositol-5-phosphate metabolism, organism-specific biosystem; D-myo-inositol-5-phosphate metabolism, conserved biosystem; superpathway of inositol phosphate compounds, organism-specific biosystem;
Function	hydrolase activity; metal ion binding; phosphatidylinositol-3-phosphatase activity; protein serine/threonine phosphatase activity; protein tyrosine phosphatase activity;

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