

For Research Use Only

MPV17 Monoclonal antibody

Catalog Number: 60103-1-Ig **1 Publications**



Basic Information

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| Catalog Number: 60103-1-Ig | GenBank Accession Number: BC001115 | Purification Method: Caprylic Acid/Ammonium Sulfate Precipitation |
| Size: 150ul | GeneID (NCBI): 4358 | CloneNo.: 3H5H11 |
| Source: Mouse | Full Name: MpV17 mitochondrial inner membrane protein | Recommended Dilutions: WB 1:200-1:1000 IHC 1:20-1:200 |
| Isotype: IgG1 | Calculated MW: 20 kDa | |
| Immunogen Catalog Number: AG0312 | Observed MW: 26 kDa | |

Applications

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| Tested Applications: IHC, WB, ELISA | Positive Controls: WB : human heart tissue, IHC : human liver tissue, |
| Cited Applications: WB | |
| Species Specificity: human | |
| Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 | |

Background Information

MPV17, also termed as SYM1, encodes an inner mitochondrial membrane protein. It's potential candidate that may account for the mitochondrial (mt) DNA depletion syndromes (MDDS) characterized by a severe, tissue-specific decrease of mtDNA copy number and ultimate organ failure. It's a human ortholog of the mouse kidney disease gene Mpv17. Absence or malfunction of MPV17 causes oxidative phosphorylation (OXPHOS) failure and mtDNA depletion, not only in affected individuals but also in Mpv17^{-/-} mice. MPV17 contribute to ROS homeostasis, but the downstream signaling is unknown yet. Catalog#60103-1-Ig is a mouse monoclonal antibody raised against the full-length of human MPV17.

Notable Publications

| Author | Pubmed ID | Journal | Application |
|-------------|-----------|---------------|-------------|
| Hans Weiher | 26921094 | BMC Res Notes | WB |

Storage

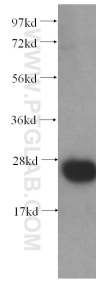
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.1% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

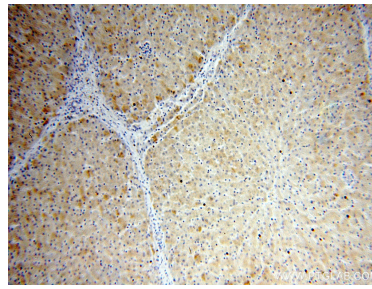
For technical support and original validation data for this product please contact:
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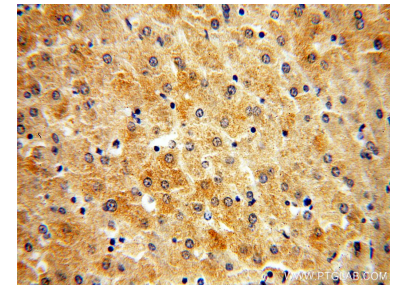
Selected Validation Data



human heart tissue were subjected to SDS PAGE followed by western blot with 60103-1-Ig (MPV17 antibody) at dilution of 1:100 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver using 60103-1-Ig(MPV17 antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human liver using 60103-1-Ig(MPV17 antibody) at dilution of 1:50 (under 40x lens).