For Research Use Only

MRPL40 Recombinant monoclonal antibody

Catalog Number:83515-4-RR

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Basic Information

Catalog Number:
83515-4-RR

Size:
100ul , Concentration: 1000 ug/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG10341

GenBank Accession Number:
BC009707

GeneID (NCBI):
64976

UNIPROT ID:
Q9NQ50

Full Name:
mitochondrial ribosomal protein L40

Calculated MW:
206 aa, 24 kDa

Observed MW:
18-24 kDa

Purification Method:
Protein A purification

CloneNo.:
240506A9

Recommended Dilutions:
WB: 1:5000-1:50000
IHC: 1:50-1:500
IF/ICC: 1:200-1:800

Applications

Tested Applications:
WB, IHC, IF/ICC, ELISA

Species Specificity:
human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : A549 cells, mouse brain tissue, HeLa cells, K-562 cells, LNCaP cells, Jurkat cells, COLO 320 cells, rat brain tissue

IHC : human intrahepatic cholangiocarcinoma tissue,

IF/ICC : HeLa cells,

Background Information

MRPL40, also known as NLVCF and URIM, belongs to the mitochondrion-specific ribosomal protein mL40 family. MRPL40 encodes the mitochondrial ribosomal protein L40 for the larger 39S subunit of mitochondrial ribosomes. MRPL40 is widely expressed in human organs and tissues, including the heart, brain, placenta, lung, liver, skeletal muscle, kidney, pancreas, spleen, thymus, prostate, ovary, small intestine, colon, peripheral blood lymphocyte (PBL), and testis. MRPL40 is also expressed in human fetuses and mouse embryos, suggesting its important role in fetal development (PMID: 36891938).

Storage

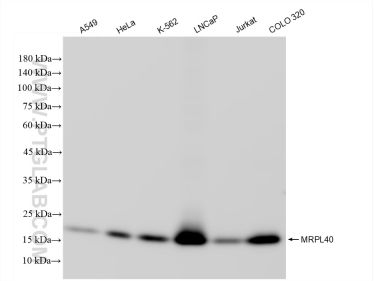
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

***** 20ul sizes contain 0.1% BSA**

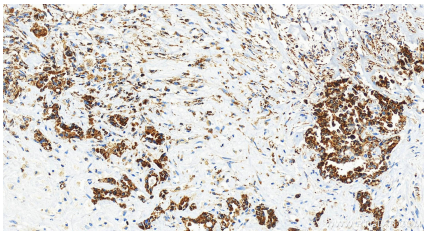
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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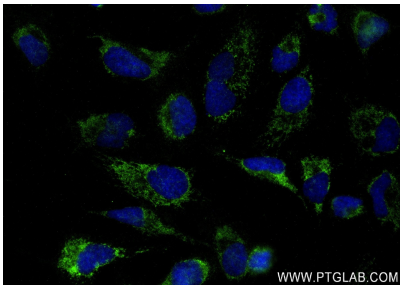
Selected Validation Data



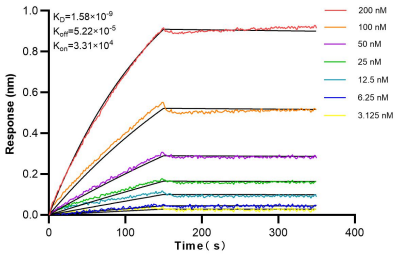
Various lysates were subjected to SDS PAGE followed by western blot with 83515-4-RR (MRPL40 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human intrahepatic cholangiocarcinoma tissue slide using 83515-4-RR (MRPL40 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using MRPL40 antibody (83515-4-RR, Clone: 240506A9) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Biolayer interferometry (BLI) kinetic assays of 83515-4-RR against Human MRPL40 were performed. The affinity constant is 1.56 nM.