

[KD Validated] MRPL13 Rabbit mAb

Catalog NO.: A27545 **Recombinant**

Basic Information

Observed MW

21kDa

Calculated MW

21kDa

Category

Monoclonal Antibodies

Applications

WB, IHC-P, ELISA

Cross-Reactivity

Human, Mouse, Rat

Conjugation

Unconjugated

Clone number

ARC72187

Background

Mammalian mitochondrial ribosomal proteins are encoded by nuclear genes and help in protein synthesis within the mitochondrion. Mitochondrial ribosomes (mitoribosomes) consist of a small 28S subunit and a large 39S subunit. They have an estimated 75% protein to rRNA composition compared to prokaryotic ribosomes, where this ratio is reversed. Another difference between mammalian mitoribosomes and prokaryotic ribosomes is that the latter contain a 5S rRNA. Among different species, the proteins comprising the mitoribosome differ greatly in sequence, and sometimes in biochemical properties, which prevents easy recognition by sequence homology. This gene encodes a 39S subunit protein.

Recommended Dilutions

WB 1:10000 - 1:40000

IHC-P 1:4000 - 1:16000

ELISA

Recommended starting concentration is 1 µg/mL.
Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID

28998

Swiss Prot

Q9BYD1

Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms

L13; L13A; L13mt; RPL13; RPML13

Contact

Product Information

☒		order@abclonal.com
☒		service@abclonal.com
☒		www.abclonal.com

Source

Rabbit

Isotype

IgG

Purification

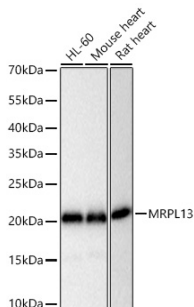
Affinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.09% Sodium azide, 0.05% BSA, 50% glycerol, pH 7.3.

Validation Data



Western blot analysis of various lysates using [KD Validated] MRPL13 Rabbit mAb (A27545) at 1:10000 dilution incubated at room temperature for 1.5 hours.

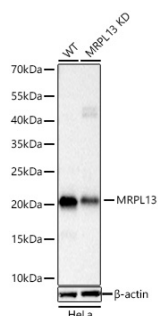
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25 µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 1s.



Western blot analysis of lysates from wild type (WT) and MRPL13 knockdown (KD) HeLa cells using [KD Validated] MRPL13 Rabbit mAb (A27545) at 1:10000 dilution incubated at room temperature for 1.5 hours.

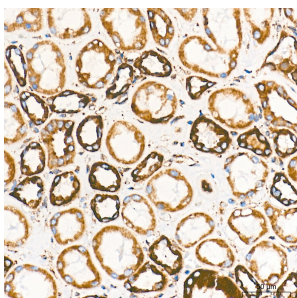
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25 µg per lane.

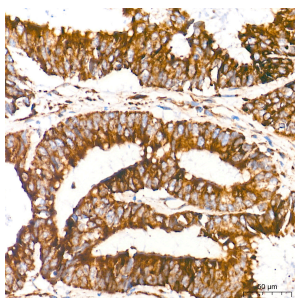
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

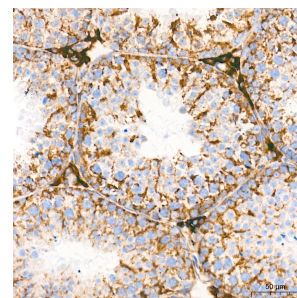
Exposure time: 1s.



Immunohistochemistry analysis of paraffin-embedded Human kidney tissue using [KD Validated] MRPL13 Rabbit mAb (A27545) at a dilution of 1:4000



Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma tissue using [KD Validated] MRPL13 Rabbit mAb (A27545) at a dilution of 1:4000



Immunohistochemistry analysis of paraffin-embedded Mouse testis tissue using [KD Validated] MRPL13 Rabbit mAb (A27545) at a dilution of 1:4000

(40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

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