

For Research Use Only

# MRPS35 Polyclonal antibody

Catalog Number: 16457-1-AP **28 Publications**



## Basic Information

|   |  |  |
|---|--|--|
| <b>Catalog Number:</b><br>16457-1-AP                          | <b>GenBank Accession Number:</b><br>BC015862             | <b>Purification Method:</b><br>Antigen affinity purification                                       |
| <b>Size:</b><br>150ul , Concentration: 800 µg/ml by Nanodrop; | <b>GeneID (NCBI):</b><br>60488                           | <b>Recommended Dilutions:</b><br>WB 1:2000-1:10000<br>IP 0.5-4.0 ug for IP and 1:500-1:2000 for WB |
| <b>Source:</b><br>Rabbit                                      | <b>Full Name:</b><br>mitochondrial ribosomal protein S35 | <b>IHC 1:50-1:500</b>  |
| <b>Isotype:</b><br>IgG  | <b>Calculated MW:</b><br>323 aa, 37 kDa                  | <b>IF 1:50-1:500</b>   |
| <b>Immunogen Catalog Number:</b><br>AG9430                    | <b>Observed MW:</b><br>37 kDa                            |  |

## Applications

|   |   |
|---|---|
| <b>Tested Applications:</b><br>IF, IHC, IP, WB, ELISA | <b>Positive Controls:</b><br>WB : HeLa cells, human heart tissue, HepG2 cells |
| <b>Cited Applications:</b><br>IP, WB                  | <b>IP :</b> HeLa cells,   |
| <b>Species Specificity:</b><br>human, mouse, rat      | <b>IHC :</b> human colon cancer tissue,                                       |
| <b>Cited Species:</b><br>human, mouse                 | <b>IF :</b> HeLa cells,   |

**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

Mammalian mitochondrial ribosomes (mitoribosomes) are responsible for protein synthesis within the mitochondrion. The mitoribosomes are composed of a 4:1 ratio of protein to RNA, with the proteins forming two subunits, the 28S subunit and the 39S subunit. Across species, the proteins that make up the mitoribosome subunits vary greatly in sequence, preventing easy recognition by sequence homology. MRPS35 (mitochondrial ribosomal protein S35), also known as MDS023, MRPS28 or HDCMD11P, is a 323 amino acid protein that localizes to the mitochondrion, where it exists as a component of the 28S ribosomal subunit and works in conjunction with other MRPs to mediate protein synthesis. Existing as two alternatively spliced isoforms, MRPS35 is encoded by a gene located on human chromosome 10, which houses over 1,200 genes and comprises nearly 4.5% of the human genome. This antibody is a rabbit polyclonal antibody raised against the full length MRPS35 protein. It specifically reacts with the 37kd MRPS35protein.

## Notable Publications

| Author                  | Pubmed ID | Journal | Application |
|-------------------------|-----------|---------|-------------|
| Ying Shu                | 36314841  | EMBO J  | WB          |
| Miguel Molina-Berenguer | 34919756  | FASEB J | WB          |
| Kah Ying Ng             | 36399564  | Sci Adv | WB          |

## Storage

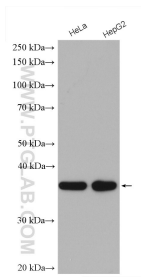
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

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

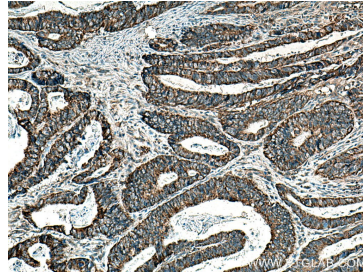
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

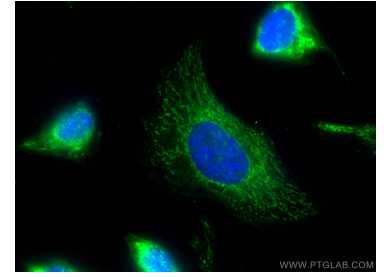
## Selected Validation Data



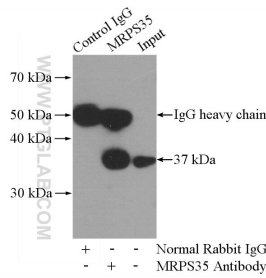
Various lysates were subjected to SDS PAGE followed by western blot with 16457-1-AP (MRPS35 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 16457-1-AP (MRPS35 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using MRPS35 antibody (16457-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



IP Result of anti-MRPS35 (IP:16457-1-AP, 4 $\mu$ g; Detection:16457-1-AP 1:1000) with HeLa cells lysate 1200 $\mu$ g.