

MRPS22 Polyclonal Antibody

Catalog number: 10984-1-AP

Size: 31 µg/150 µl

Source: Rabbit

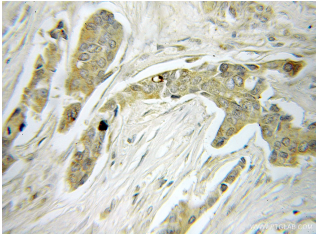
Isotype: IgG

Synonyms:

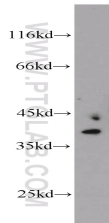
MRPS22; C3orf5, COXPD5,

GIBT, GK002, MRP S22,

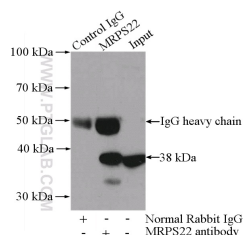
MRPS22, RPMS22, S22mt



Immunohistochemical of paraffin-embedded human breast cancer using 10984-1-AP(MRPS22 antibody) at dilution of 1:50 (under 10x lens)



Jurkat cells were subjected to SDS PAGE followed by western blot with 10984-1-AP(MRPS22 antibody) at dilution of 1:300



IP Result of anti-MRPS22 (IP:10984-1-AP, 4µg; Detection:10984-1-AP 1:300) with Jurkat cells lysate 2400µg.

Background

MRPS22, also named as C3orf5, RPMS22 and S22mt, is a component of the mitochondrial ribosome small subunit (28S) which comprises a 12S rRNA and about 30 distinct proteins. Defects in MRPS22 are the cause of combined oxidative phosphorylation deficiency type 5 (COXPD5). MRPS22 is a 360-amino-acid protein that has been found in a limited number of species, having no ortholog in fungi or prokaryotes. The exact location of MRPS22 in the three dimensional structure of the ribosome and its exact function are currently unknown. Recently, a MRPS22 defect was shown to strongly hamper assembly of the small ribosomal subunit, whereas assembly of the large subunit and part of the small subunit were only mildly affected.(PMID:21189481)

Applications

Tested applications:	ELISA, IHC, WB, IP
Cited applications:	WB
Species specificity:	Human, Mouse; other species not tested.
Cited species:	Human, mouse
Calculated MRPS22 MW:	41 kDa
Observed MRPS22 MW:	38 kDa
Positive WB detected in	Jurkat cells, mouse liver tissue, mouse spleen tissue, rat spleen tissue
Positive IP detected in	Jurkat cells
Positive IHC detected in	Human breast cancer tissue
Recommended dilution:	WB: 1:200-1:1000 IP: 1:200-1:1000 IHC: 1:20-1:200

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag1421
GenBank accession number:	BC009296
Gene ID (NCBI):	56945
Full name:	Mitochondrial ribosomal protein S22

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.