



# MRP-S22 Monoclonal Antibody

|                                    |                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Catalog No</b>                  | YP-mAb-04011                                                                                                                                                                                                                                                                                                                                                          |
| <b>Isotype</b>                     | IgG                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Reactivity</b>                  | Human;Mouse;Rat                                                                                                                                                                                                                                                                                                                                                       |
| <b>Applications</b>                | WB                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Gene Name</b>                   | MRPS22                                                                                                                                                                                                                                                                                                                                                                |
| <b>Immunogen</b>                   | The antiserum was produced against synthesized peptide derived from human MRPS22. AA range:231-280                                                                                                                                                                                                                                                                    |
| <b>Specificity</b>                 | MRP-S22 Monoclonal Antibody detects endogenous levels of MRP-S22 protein.                                                                                                                                                                                                                                                                                             |
| <b>Formulation</b>                 | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.                                                                                                                                                                                                                                                                                               |
| <b>Source</b>                      | Monoclonal, Mouse,IgG                                                                                                                                                                                                                                                                                                                                                 |
| <b>Purification</b>                | The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.                                                                                                                                                                                                                                                  |
| <b>Dilution</b>                    | WB 1:500-1:2000                                                                                                                                                                                                                                                                                                                                                       |
| <b>Concentration</b>               | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                               |
| <b>Purity</b>                      | ≥90%                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Storage Stability</b>           | -20°C/1 year                                                                                                                                                                                                                                                                                                                                                          |
| <b>Synonyms</b>                    | C3orf5;COXPD5;GIBT;GK002;MRP S22;MRP-S22;MRPS22;28S ribosomal protein S22 mitochondrial;RPMS22;28S ribosomal protein S22;mitochondrial;S22mt                                                                                                                                                                                                                          |
| <b>Observed Band</b>               | 41kD                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Calculated Molecular Weight</b> | 41kD                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Cell Pathway</b>                | Mitochondrion .                                                                                                                                                                                                                                                                                                                                                       |
| <b>Tissue Specificity</b>          | Brain,Liver cancer,Muscle,Placenta,                                                                                                                                                                                                                                                                                                                                   |
| <b>Function</b>                    | disease:Defects in MRPS22 are the cause of combined oxidative phosphorylation deficiency type 5 (COXPD5) [MIM:611719]. COXPD5 is an antenatal mitochondrial disease. Patients show edema, cardiomyopathy, tubulopathy, and hypotonia.,subunit:Component of the mitochondrial ribosome small subunit (28S) which comprises a 12S rRNA and about 30 distinct proteins., |
| <b>Background</b>                  | 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 28S subunit protein that does not seem to have a counterpart in prokaryotic and fungal-mitochondrial ribosomes. This gene lies telomeric of and is transcribed in the opposite direction from the forkhead box L2 gene. A pseudogene

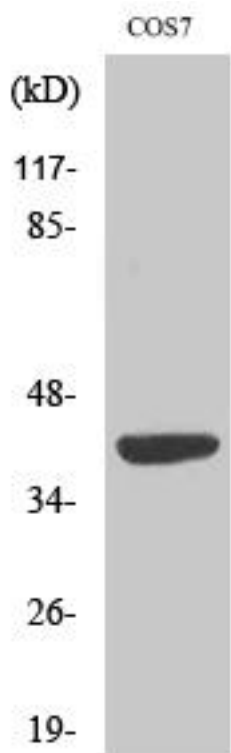
**matters needing attention**

Avoid repeated freezing and thawing!

**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

**Products Images**



Western Blot analysis of various cells using MRP-S22 Monoclonal Antibody