

## MRPL50 Antibody

Catalog No: #34805

Package Size: #34805-1 50ul #34805-2 100ul

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)Support: [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)

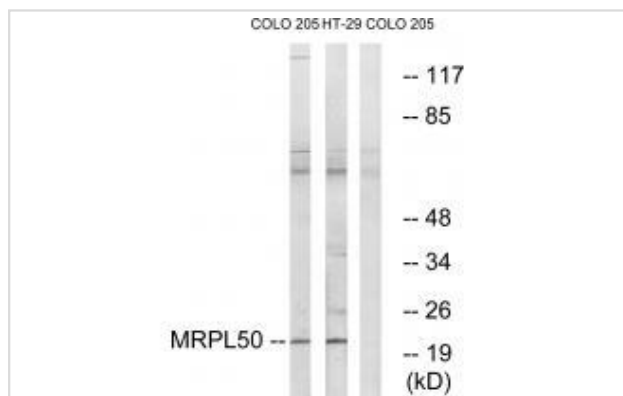
## Description

|                       |                                                                                                                                                    |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name          | MRPL50 Antibody                                                                                                                                    |
| Host Species          | Rabbit                                                                                                                                             |
| Clonality             | Polyclonal                                                                                                                                         |
| Purification          | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.                              |
| Applications          | WB                                                                                                                                                 |
| Species Reactivity    | Hu                                                                                                                                                 |
| Specificity           | The antibody detects endogenous levels of total MRPL50 protein.                                                                                    |
| Immunogen Type        | Peptide                                                                                                                                            |
| Immunogen Description | Synthesized peptide derived from internal of human MRPL50.                                                                                         |
| Target Name           | MRPL50                                                                                                                                             |
| Other Names           | flj20493; flj21990; mitochondrial ribosomal protein l50; mrp-l50; mrpl50                                                                           |
| Accession No.         | Swiss-Prot: Q8N5N7NCBI Gene ID: 54534                                                                                                              |
| Uniprot               | Q8N5N7                                                                                                                                             |
| GeneID                | 54534;                                                                                                                                             |
| SDS-PAGE MW           | 22kd                                                                                                                                               |
| Concentration         | 1.0mg/ml                                                                                                                                           |
| Formulation           | Rabbit IgG in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| Storage               | Store at -20°C                                                                                                                                     |

## Application Details

Western blotting: 1:500~1:3000

## Images



Western blot analysis of extracts from COLO cells and HT-29 cells, using MRPL50 antibody #34805.

## 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 putative 39S subunit protein and belongs to the L47P ribosomal protein family. Pseudogenes corresponding to this gene are found on chromosomes 2p, 2q, 5p, and 10q.

Ota T., Nat. Genet. 36:40-45(2004).

Humphray S.J., Nature 429:369-374(2004).

The MGC Project Team; Genome Res. 14:2121-2127(2004).

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Note: This product is for in vitro research use only