

## MRPS31 RABBIT PAB

**Cat.#:** S213068

**Product Name:** Anti-MRPS31 Rabbit Polyclonal Antibody

**Synonyms:** S31mt; IMOGN38; MRP-S31

**UNIPROT ID:** Q92665 (Gene Accession - BC022045 )

**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. The 28S subunit of the mammalian mitoribosome may play a crucial and characteristic role in translation initiation. This gene encodes a 28S subunit protein that has also been associated with type 1 diabetes; however, its relationship to the etiology of this disease remains to be clarified. Pseudogenes corresponding to this gene have been found on chromosomes 3 and 13.

**Immunogen:** Fusion protein of human MRPS31

**Applications:** ELISA, IHC

**Recommended Dilutions:** IHC: 150-300; ELISA: 5000-10000

**Host Species:** Rabbit

**Clonality:** Rabbit Polyclonal

**Isotype:** Immunogen-specific rabbit IgG

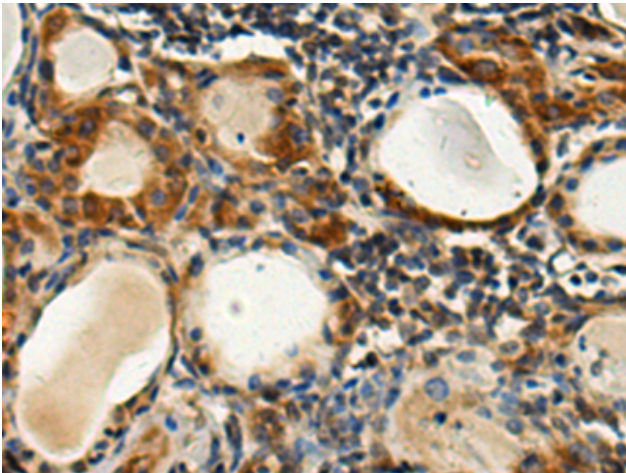
**Purification:** Antigen affinity purification

**Species Reactivity:** Human

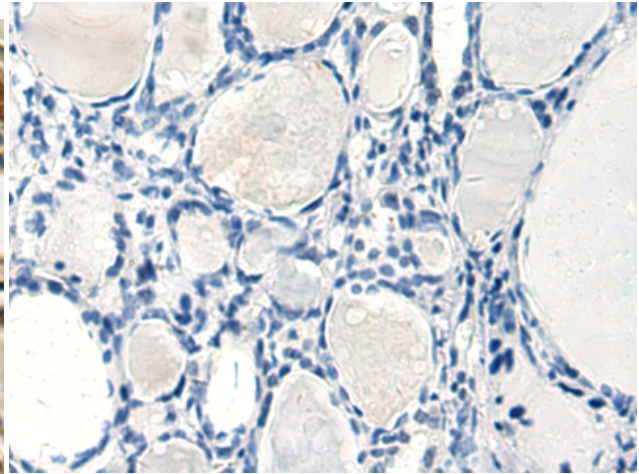
**Constituents:** PBS (without Mg<sup>2+</sup> and Ca<sup>2+</sup>), pH 7.4, 150 mM NaCl, 0.05% Sodium Azide and 40% glycerol

**Research Areas:** Epigenetics and Nuclear Signaling, Immunology, Metabolism

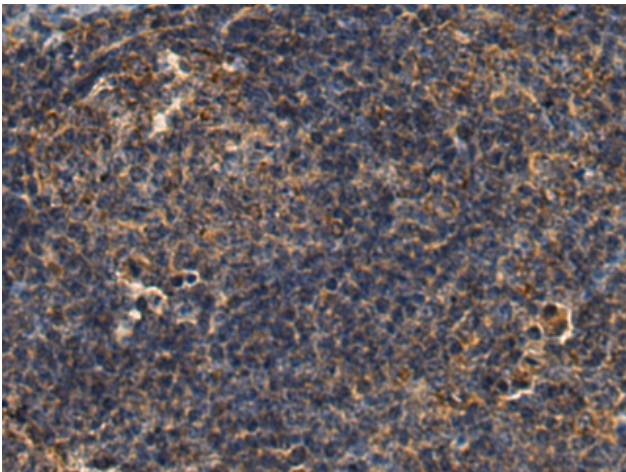
**Storage & Shipping:** Store at -20°C. Avoid repeated freezing and thawing



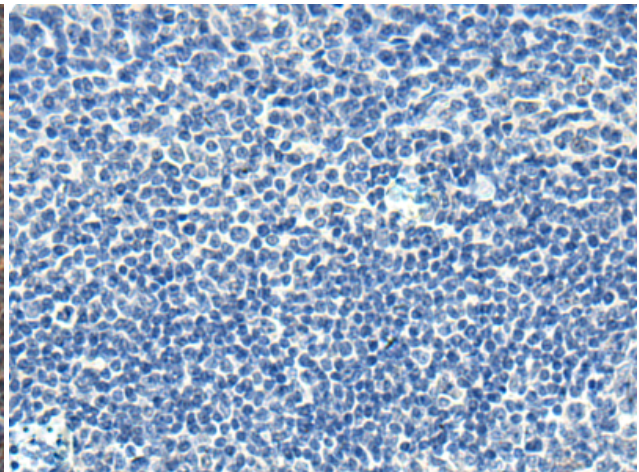
Immunohistochemistry analysis of paraffin embedded Human thyroid cancer tissue using 213068(MRPS31 Antibody) at a dilution of 1/140(Cytoplasm).



In comparison with the IHC on the left, the same paraffin-embedded Human thyroid cancer tissue is first treated with the fusion protein and then with 213068(Anti-MRPS31 Antibody) at dilution 1/140.



The image on the left is immunohistochemistry of paraffin-embedded Human tonsil tissue using 213068(Anti-MRPS31 Antibody) at a dilution of 1/140.



In comparison with the IHC on the left, the same paraffin-embedded Human tonsil tissue is first treated with fusion protein and then with D126573(Anti-MRPS31 Antibody) at dilution 1/140.