

## Anti-COA7 antibody

<b>Cat. No.</b>	ml224337
<b>Package</b>	25 µl/100 µl/200 µl
<b>Storage</b>	-20°C, pH7.4 PBS, 0.05% NaN <sub>3</sub> , 40% Glycerol

### Product overview

<b>Description</b>	Anti-COA7 rabbit polyclonal antibody
<b>Applications</b>	ELISA, WB, IHC
<b>Immunogen</b>	Full length fusion protein
<b>Reactivity</b>	Human, Mouse
<b>Content</b>	0.9 mg/ml
<b>Host species</b>	Rabbit
<b>Ig class</b>	Immunogen-specific rabbit IgG
<b>Purification</b>	Antigen affinity purification

### Target information

<b>Symbol</b>	COA7
<b>Full name</b>	cytochrome c oxidase assembly factor 7 (putative)

**Synonyms** RESA1; SELRC1; C1orf163

**Swissprot** Q96BR5

### Target Background

The cytochrome c oxidase (COX) family of proteins function as the final electron donor in the respiratory chain to drive a proton gradient across the inner mitochondrial membrane, ultimately resulting in the production of water. COA7 (cytochrome c oxidase assembly factor 7), also known as RESA1, SELRC1 or C1orf163, is a 231 amino acid mitochondrial protein that belongs to the hcp beta-lactamase family. Consisting of five Sel1-like repeats, COA7 may be associated with respiratory chain assembly. COA7 is encoded by a gene located on human chromosome 1p32.3. Chromosome 1 is the largest human chromosome spanning about 260 million base pairs and making up 8% of the human genome. There are about 3,000 genes on chromosome 1, and considering the great number of genes there are also a large number of diseases associated with chromosome 1. Notably, the rare aging disease Hutchinson-Gilford progeria is associated with the LMNA gene, which encodes lamin A. When defective, the LMNA gene product can build up in the nucleus and cause characteristic nuclear blebs. The mechanism of rapidly enhanced aging is unclear and is a topic of continuing exploration.

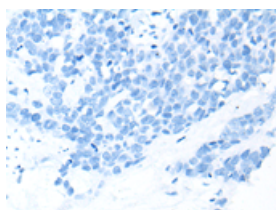
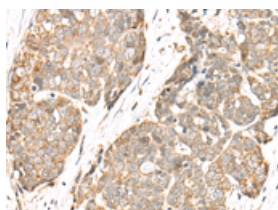
## Applications

### Immunohistochemistry

Predicted cell location: Cytoplasm or Cell membrane

Positive control: Human thyroid cancer

Recommended dilution: 40-200

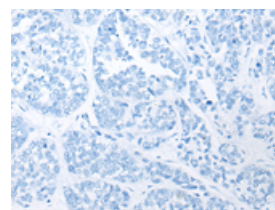
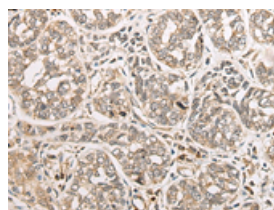


The image on the left is immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using ml224337(COA7 Antibody) at dilution 1/55, on the right is treated with fusion protein. (Original magnification:  $\times 200$ )

Predicted cell location: Cytoplasm or Cell membrane

Positive control: Human esophagus cancer

Recommended dilution: 40-200



The image on the left is immunohistochemistry of paraffin-embedded Human esophagus cancer tissue using ml224337(COA7 Antibody) at dilution 1/55, on the right is treated with fusion protein. (Original magnification:  $\times 200$ )

### Western blotting

Predicted band size: 26 kDa

Positive control: HL-60 and HEPG2 cell lysates

Recommended dilution: 500-2000

Gel: 12%SDS-PAGE

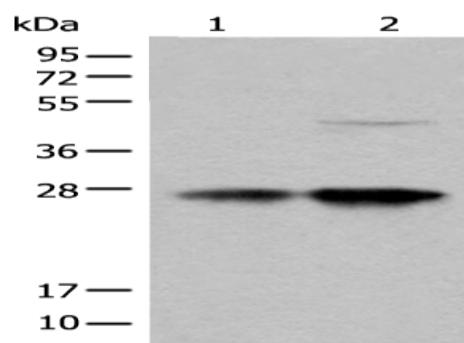
Lysate: 40  $\mu$ g

Lane 1-2: HL-60 and HEPG2 cell lysates

Primary antibody: ml224337(COA7 Antibody) at dilution 1/550

Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution

Exposure time: 20 seconds



## ELISA

Recommended dilution: 5000-10000

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