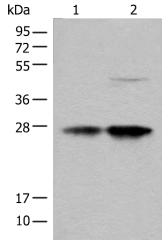
Tel:240-252-7368(USA)
Fax: 240-252-7376(USA)
techsupport@elabscience.com
Website: www.elabscience.com

COA7 Polyclonal Antibody

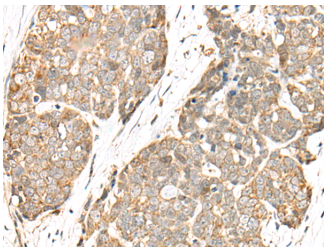
Catalog No.	E-AB-18566	**Reactivity**	H,M
Storage	Store at -20℃. Avoid freeze / thaw cycles.	**Host**	Rabbit
Applications	WB,IHC,ELISA	**Isotype**	IgG

Note: Centrifuge before opening to ensure complete recovery of vial contents.

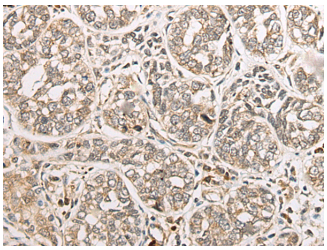
Images



Western blot analysis of HL-60 and HEPG2 cell lysates using COA7 Polyclonal Antibody at dilution of 1:550



Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using COA7 Polyclonal Antibody at dilution of 1:55(×200)



Immunohistochemistry of paraffin-embedded Human esophagus cancer tissue using COA7 Polyclonal Antibody at dilution of 1:55(×200)

Immunogen Information

Immunogen	Full length fusion protein
Gene Accession	BC015313
Swissprot	Q96BR5
Synonyms	beta-lactamase hcp-like protein,C1orf163,Hypothetical protein LOC65260,RESA1

Product Information

Calculated MW	26 kDa
Observed MW	Refer to figures
Buffer	PBS with 0.05% NaN3 and 40% Glycerol,pH7.4
Purify	Antigen affinity purification
Dilution	WB 1:500-1:2000, IHC 1:40-1:200, ELISA 1:5000-1:10000

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.