

For Research Use Only

COA7 Polyclonal antibody

Catalog Number: 25361-1-AP

3 Publications



Basic Information

Catalog Number:

25361-1-AP

Size:

150ul, Concentration: 700 ug/ml by Nanodrop and 367 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG19734

GenBank Accession Number:

BC015313

GeneID (NCBI):

65260

UNIPROT ID:

Q96BR5

Full Name:

chromosome 1 open reading frame 163

Calculated MW:

231 aa, 26 kDa

Observed MW:

25-28 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:5000

IHC 1:500-1:2000

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB, IF

Species Specificity:

human, mouse

Cited Species:

human

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: A431 cells, COLO 320 cells, PC-3 cells

IHC: human placenta tissue, human colon cancer tissue

IF/ICC: HeLa cells,

Background Information

Cytochrome c oxidase assembly factor 7 (COA7) is a 231 aa long mitochondrial protein present in animals, containing five Sel1-like tetratricopeptide repeat sequences, which are likely to interact with partner proteins (PMID: 30885959). COA7 is a metazoan-specific assembly factor, the absence or mutation of which in humans accompanies complex IV assembly defects and neurological conditions (PMID: 35210360). COA7 has a molecular weight of ~25 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Ryan Houston	34495738	Mol Biol Cell	WB
Anabel Martinez Lyons	27683825	J Med Genet	WB
Christina M Knippler	38632988	iScience	WB,IF

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

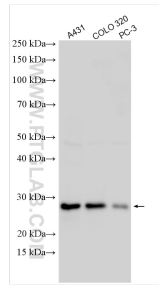
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

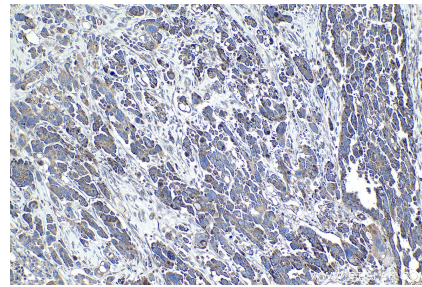
E: proteintech@ptglab.com
W: ptglab.com

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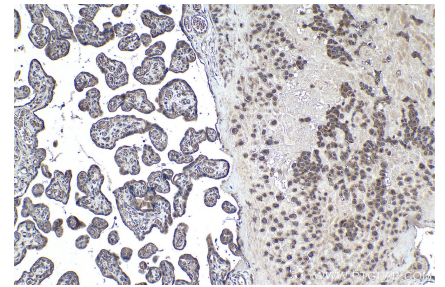
Selected Validation Data



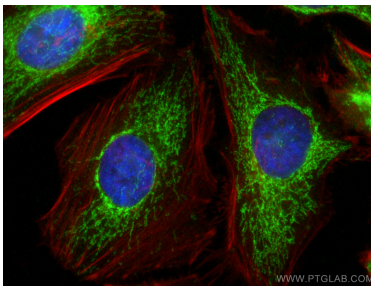
Various lysates were subjected to SDS PAGE followed by western blot with 25361-1-AP (COA7 antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 25361-1-AP (COA7 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 25361-1-AP (COA7 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using COA7 antibody (25361-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).