

ICT1 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP20382b

Product Information

Application WB, IHC-P, E **Primary Accession** Q14197 Reactivity Human Host Rabbit Clonality Polyclonal Isotype Rabbit IgG **Calculated MW** 23630 **Antigen Region** 153-179

Additional Information

Gene ID 3396

Other Names Peptidyl-tRNA hydrolase ICT1, mitochondrial, 39S ribosomal protein L58,

mitochondrial, MRP-L58, Digestion substraction 1, DS-1, Immature colon

carcinoma transcript 1 protein, ICT1, DS1

Target/Specificity This ICT1 antibody is generated from rabbits immunized with a KLH

conjugated synthetic peptide between 153-179 amino acids from the

C-terminal region of human ICT1.

Dilution WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.

Format Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.

This antibody is purified through a protein A column, followed by peptide

affinity purification.

Storage Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store

at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions ICT1 Antibody (C-term) is for research use only and not for use in diagnostic

or therapeutic procedures.

Protein Information

Name MRPL58 (HGNC:5359)

Synonyms DS1, ICT1

Function Essential peptidyl-tRNA hydrolase component of the mitochondrial large

ribosomal subunit (PubMed:20186120, PubMed:33878294). Acts as a

codon-independent translation release factor that has lost all stop codon specificity and directs the termination of translation in mitochondrion, possibly in case of abortive elongation (PubMed:33878294). Involved in the hydrolysis of peptidyl-tRNAs that have been prematurely terminated and thus in the recycling of stalled mitochondrial ribosomes (PubMed:20186120, PubMed:33878294).

Cellular Location Mitochondrion

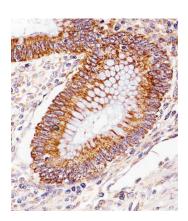
Tissue Location Down-regulated during the in vitro differentiation of HT29-D4 colon

carcinoma cells.

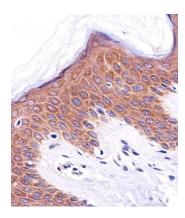
Background

Essential peptidyl-tRNA hydrolase component of the mitochondrial large ribosomal subunit. Acts as a codon-independent translation release factor that has lost all stop codon specificity and directs the termination of translation in mitochondrion, possibly in case of abortive elongation. May be involved in the hydrolysis of peptidyl-tRNAs that have been prematurely terminated and thus in the recycling of stalled mitochondrial ribosomes.

Images



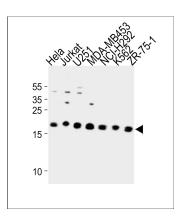
Immunohistochemical analysis of paraffin-embedded H. colorectal carcinoma section using ICT1 Antibody (C-term)(Cat#AP20382b). AP20382b was diluted at 1:25 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.



Immunohistochemical analysis of paraffin-embedded H. skin section using ICT1 Antibody (C-term)(Cat#AP20382b). AP20382b was diluted at 1:25 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.

ICT1 Antibody (C-term) (Cat. #AP20382b) western blot analysis in Hela,Jurkat,U251,MDA-MB453,NCI-H292,K562,ZR-75-1 cell line by cates (25 ug/lane). This demonstrates the ICT1

line lysates (35ug/lane). This demonstrates the ICT1 antibody detected the ICT1 protein (arrow).



Citations

- ICT1 Promotes Osteosarcoma Cell Proliferation and Inhibits Apoptosis via STAT3/BCL-2 Pathway
- Knockdown of immature colon carcinoma transcript 1 induces suppression of proliferation, S-phase arrest and apoptosis in leukemia cells.
- Immature colon carcinoma transcript-1 promotes cell growth of hepatocellular carcinoma via facilitating cell cycle progression and apoptosis resistance.
- miR-205 regulation of ICT1 has an oncogenic potential via promoting the migration and invasion of gastric cancer cells.
- Immature colon carcinoma transcript-1 promotes proliferation of gastric cancer cells.
- ICT1 knockdown inhibits breast cancer cell growth via induction of cell cycle arrest and apoptosis.
- Knockdown of Immature Colon Carcinoma Transcript 1 Inhibits Proliferation and Promotes Apoptosis of Non-Small Cell Lung Cancer Cells.
- Knockdown of immature colon carcinoma transcript-1 inhibits proliferation of glioblastoma multiforme cells through Gap 2/mitotic phase arrest.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.