ICT1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ICT1, Polyclonal Antibody
Full Product Name	ICT1 (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) (MaxLight 490)
Product Gene Name	anti-ICT1 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human ICT1. Species Crossreactivity: human
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	23,630 Da
OMIM	603000
3D Structure	ModBase 3D Structure for Q14197
Immunogen	KLH conjugated synthetic peptide corresponding to aa153-179 at the C-terminal region of human ICT1.
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-ICT1 antibody	Antibodies; Cancer Markers
Applications Tested/Suitable for anti-ICT1 antibody	Western Blot (WB), Immunohistochemistry (IHC) Paraffin
Application Notes for anti-ICT1 antibody	WB: 1:1000 IHC-P: 1:25 Applications are based on unconjugated antibody.
Related Product Information for anti-ICT1 antibody	MBS6456608 is an antibody targeting ICT1. Also known as ICT1 (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) (MaxLight 490). Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-ICT1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ICT1. It may not necessarily be applicable to this product.

NCBI GI #	4557657
NCBI GeneID	3396
NCBI Accession #	NP_001536.1
UniProt Primary Accession #	Q14197
UniProt Secondary Accession #	Q53HM7; Q53Y11; B2RAD1
UniProt Related Accession #	Q14197
GenBank Nucleotide #	NM_001545.2
NCBI Official Full Name	peptidyl-tRNA hydrolase ICT1, mitochondrial isoform 1
NCBI Official Synonym Full Names	immature colon carcinoma transcript 1
NCBI Official Symbol	ICT1
NCBI Official Synonym Symbols	DS1; DS-1; MRP-L58
UniProt Protein Name	Peptidyl-tRNA hydrolase ICT1, mitochondrial
UniProt Synonym Protein Names	39S ribosomal protein L58, mitochondrial; MRP-L58; Digestion substraction 1; DS-1; Immature colon carcinoma transcript 1 protein
Protein Family	1-acylglycerol-3-phosphate O-acyltransferase
UniProt Gene Name	ICT1
UniProt Synonym Gene Names	DS1; MRP-L58; DS-1
UniProt Entry Name	ICT1_HUMAN
NCBI Protein Information	peptidyl-tRNA hydrolase ICT1, mitochondrial; 39S ribosomal protein L58, mitochondrial; digestion substraction 1; immature colon carcinoma transcript 1 protein
NCBI Summary for ICT1	The protein encoded by this gene is a peptidyl-tRNA hydrolase and a vital component of the large mitochondrial ribosome. The encoded protein serves as a ribosome release factor for this ribosome, which translates mitochondrial genes. This protein may be responsible for degrading prematurely-terminated polypeptides and for reusing stalled ribosomes. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2014]
UniProt Comments for ICT1	ICT1: 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. Belongs to the prokaryotic/mitochondrial release factor family. ICT1 subfamily. Protein type: Mitochondrial; EC 3.1.1.29 Chromosomal Location of Human Ortholog: 17q25.1 Cellular Component: mitochondrion; mitochondrial matrix; mitochondrial inner membrane; mitochondrial large ribosomal subunit Molecular Function: aminoacyl-tRNA hydrolase activity; translation release factor activity, codon nonspecific Biological Process: mitochondrial translation; organelle organization and biogenesis
Research Articles on ICT1	**1.** Observational study of gene-disease association. (HuGE Navigator)
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