# ICT1 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | ICT1, Polyclonal Antibody |
| **Full Product Name** | ICT1 (Immature Colon Carcinoma Transcript 1 Protein, Digestion Substraction 1, DS1, DS-1) (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. |
| **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 amo 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** | Full length human ICT1, aa1-206 (NP_001536.1). |
| **Immunogen Sequence** | MAATRCLRWGLSRAGVWLLPPPARCPRRALHKQKDGTEFKSIYSLDKLYPESQGSDTAWRVPNGAKQADSDIPLDRLTISYCRSSGPGGQNVNKVNSK |
| **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) |
| **Application Notes for anti-ICT1 antibody** | Applications are based on unconjugated antibody. |
| **Related Product Information for anti-ICT1 antibody** | The adult colon epithelium contains 3 differentiated cell types that arise from a multipotent stem cell. Deviation from the normal maturation pathway by highly expressed in undifferentiated than in differentiated cells. [provided by RefSeq] |

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| **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 necessa additional dry ice fee may apply. |
| **Searchable Terms for ICT1 purchase** | MBS6382008 is an antibody targeting ICT1. Also known as ICT1 (Immature Colon Carcinoma Transcript 1 Protein, Digestion Substraction 1, DS1, DS- |

## ADDITIONAL DETAILS

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

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| **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_001545.1 |
| **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] |

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| **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.<br><br>Protein type: Mitochondrial; EC 3.1.1.29<br><br>Chromosomal Location of Human Ortholog: 17q25.1<br><br>Cellular Component: mitochondrion; mitochondrial matrix; mitochondrial inner membrane; mitochondrial large ribosomal subunit<br><br>Molecular Function: aminoacyl-tRNA hydrolase activity; translation release factor activity, codon nonspecific<br><br>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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