

ICT1 Antibody (monoclonal) (M06)

Mouse monoclonal antibody raised against a partial recombinant ICT1.

Catalog # AT2472a

Product Information

Application	E
Primary Accession	Q14197
Other Accession	NM_001545
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	4C10
Calculated MW	23630

Additional Information

Gene ID	3396
Other Names	Peptidyl-tRNA hydrolase ICT1, mitochondrial, 39S ribosomal protein L58, mitochondrial, MRP-L58, Digestion subtraction 1, DS-1, Immature colon carcinoma transcript 1 protein, ICT1, DS1
Target/Specificity	ICT1 (NP_001536, 107 a.a. ~ 206 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	ICT1 Antibody (monoclonal) (M06) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

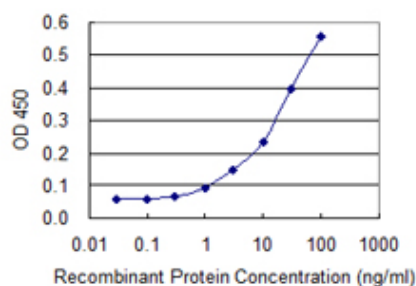
The adult colon epithelium contains 3 differentiated cell types that arise from a multipotent stem cell. Deviation from the normal maturation pathway by neoplastic transformation is thought to initiate in stem cells or their early descendants. One potential marker is ICT1 whose mRNA and protein were more highly expressed in undifferentiated than in differentiated cells.

References

Mutations in C12orf65 in patients with encephalomyopathy and a mitochondrial translation defect.

Antonicka H, et al. Am J Hum Genet, 2010 Jul 9. PMID 20598281. A functional peptidyl-tRNA hydrolase, ICT1, has been recruited into the human mitochondrial ribosome. Richter R, et al. EMBO J, 2010 Mar 17. PMID 20186120. The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Gerhard DS, et al. Genome Res, 2004 Oct. PMID 15489334. Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences. Strausberg RL, et al. Proc Natl Acad Sci U S A, 2002 Dec 24. PMID 12477932. Construction and characterization of a full length-enriched and a 5'-end-enriched cDNA library. Suzuki Y, et al. Gene, 1997 Oct 24. PMID 9373149.

Images



Detection limit for recombinant GST tagged ICT1 is 0.3 ng/ml as a capture antibody.

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