

**ICT1 Antibody (monoclonal) (M06)****Mouse monoclonal antibody raised against a partial recombinant ICT1.****Catalog # AT2472a****Specification**

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**ICT1 Antibody (monoclonal) (M06) - Product Information**

Application	E
Primary Accession	<a href="#">Q14197</a>
Other Accession	<a href="#">NM_001545</a>
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2a Kappa
Calculated MW	23630

**ICT1 Antibody (monoclonal) (M06) - 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**

ICT1 (NP\_001536, 107 a.a. ~ 206 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

**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.

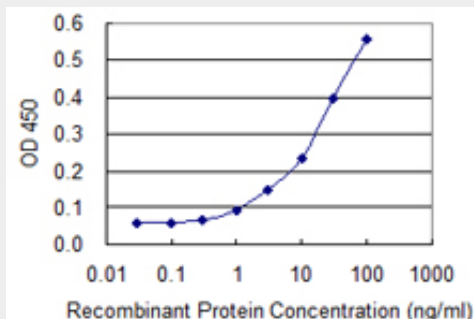
**ICT1 Antibody (monoclonal) (M06) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)

- [Flow Cytometry](#)
- [Cell Culture](#)

### ICT1 Antibody (monoclonal) (M06) - Images



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

### ICT1 Antibody (monoclonal) (M06) - 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.

### ICT1 Antibody (monoclonal) (M06) - 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.