ARG57122
anti-ICT1 antibody [1E9]

Package: 50 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [1E9] recognizes ICT1
Tested Reactivity	Hu
Tested Application	FACS, WB
Host	Mouse
Clonality	Monoclonal
Clone	1E9
Isotype	IgG1, kappa
Target Name	ICT1
Species	Human
Immunogen	Recombinant fragment around aa. 30-206 of Human ICT1
Conjugation	Un-conjugated
Alternate Names	39S ribosomal protein L58, mitochondrial; DS-1; MRP-L58; DS1; Peptidyl-tRNA hydrolase ICT1, mitochondrial; EC 3.1.1.29; Digestion substraction 1; Immature colon carcinoma transcript 1 protein

Application Instructions

Application table

Application	Dilution
FACS	Assay-dependent
WB	1:1000

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

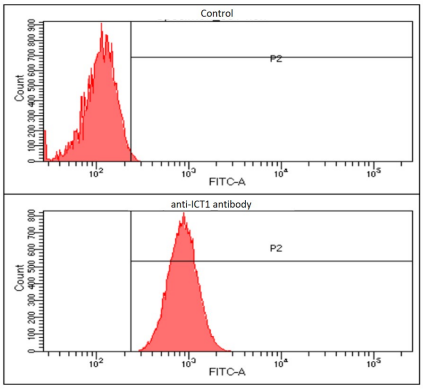
Properties

Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS (pH 7.4), 0.02% Sodium azide and 10% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	10% Glycerol
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

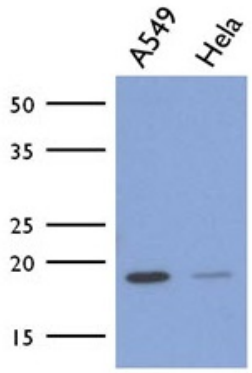
Database links	GeneID: 3396 Human Swiss-port # Q14197 Human
Gene Symbol	ICT1
Gene Full Name	immature colon carcinoma transcript 1
Background	The protein encoded by this gene is a peptidyl-tRNA hydrolase and a vital component of the large mitochondrial ribosome. The encoded protein serves as a ribosome 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]
Function	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. [UniProt]
Calculated Mw	24 kDa

Images



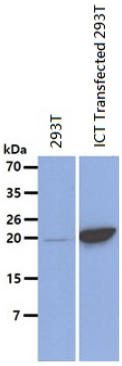
ARG57122 anti-ICT1 antibody [1E9] FACS image

Flow Cytometry: A549 cell line stained with ARG57122 anti-ICT1 antibody [1E9] at 2-5 µg for 1x10^6 cells. Secondary antibody: Goat anti-Mouse IgG Alexa fluor 488 conjugate.



ARG57122 anti-ICT1 antibody [1E9] WB image

Western blot: 40 µg of A549 and HeLa cell lysates stained with ARG57122 anti-ICT1 antibody [1E9] at 1:1000.



ARG57122 anti-ICT1 antibody [1E9] WB image

Western blot: 5 µg of 1) 293T, and 2) ICT Transfected 293T cell lysate stained with ARG57122 anti-ICT1 antibody [1E9] at 1:1000.