

Datasheet for ABIN7158949  
**anti-MCTS1 antibody (AA 1-181)**



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2 Images

## Overview

Quantity:	100 µg
Target:	MCTS1
Binding Specificity:	AA 1-181
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MCTS1 antibody is un-conjugated
Application:	ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF)

## Product Details

Immunogen:	Recombinant Human Malignant T-cell-amplified sequence 1 protein (1-181AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

## Target Details

Target:	MCTS1
Alternative Name:	MCTS1 ( <a href="#">MCTS1 Products</a> )
Background:	Background: Anti-oncogene that play a role in cell cycle regulation, decreases cell doubling time and anchorage-dependent growth, shortens the duration of G1 transit time and G1/S transition.

## Target Details

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When constitutively expressed, increases CDK4 and CDK6 kinases activity and CCND1/cyclin D1 protein level, as well as G1 cyclin/CDK complex formation. Involved in translation initiation, promotes recruitment of aminoacylated initiator tRNA to P site of 40S ribosomes. Can promote release of deacylated tRNA and mRNA from recycled 40S subunits following ABCE1-mediated dissociation of post-termination ribosomal complexes into subunits. Plays a role as translation enhancer, recruits the density-regulated protein/DENR and binds to the cap complex of the 5'-terminus of mRNAs, subsequently altering the mRNA translation profile, up-regulates protein levels of BCL2L2, TFDP1, MRE11A, CCND1 and E2F1, while mRNA levels remains constant. Hyperactivates DNA damage signaling pathway, increased gamma-irradiation-induced phosphorylation of histone H2AX, and induces damage foci formation. Increases the overall number of chromosomal abnormalities such as larger chromosomes formation and multiples chromosomal fusions when overexpressed in gamma-irradiated cells. May play a role in promoting lymphoid tumor development: lymphoid cell lines overexpressing MCTS1 exhibit increased growth rates and display increased protection against apoptosis. May contribute to the pathogenesis and progression of breast cancer via promotion of angiogenesis through the decline of inhibitory THBS1/thrombospondin-1, and inhibition of apoptosis. Involved in the process of proteasome degradation to down-regulate Tumor suppressor p53/TP53 in breast cancer cell, Positively regulates phosphorylation of MAPK1 and MAPK3. Involved in translation initiation, promotes aminoacylated initiator tRNA to P site of 40S ribosomes. Can promote release of deacylated tRNA and mRNA from recycled 40S subunits following ABCE1-mediated dissociation of post-termination ribosomal complexes into subunits.

Aliases: FLJ39637 antibody, Malignant T cell amplified sequence 1 antibody, Malignant T cell-amplified sequence 1 antibody, MCT 1 antibody, MCT-1 antibody, MCT1 antibody, MCTS 1 antibody, MCTS1 antibody, MCTS1\_HUMAN antibody, Multiple copies T cell malignancies 1 antibody, Multiple copies T cell malignancies antibody, Multiple copies T-cell malignancies antibody, Oncogene MCT 1 antibody, Oncogene MCT1 antibody

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UniProt: [Q9ULC4](#)

## Application Details

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Application Notes: Recommended dilution: IHC:1:20-1:200, IF:1:200-1:500,

Restrictions: For Research Use only

## Handling

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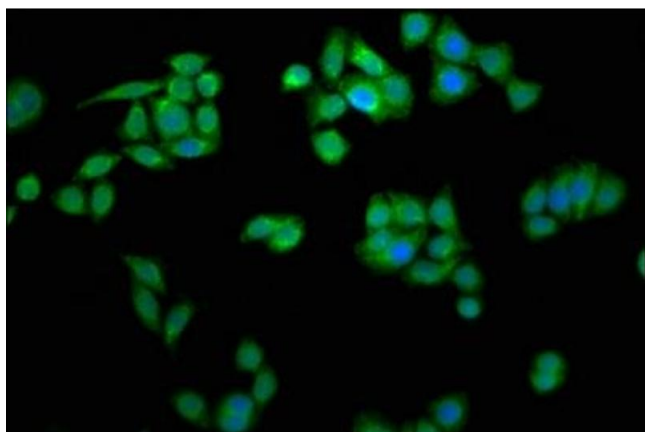
Format: Liquid

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## Handling

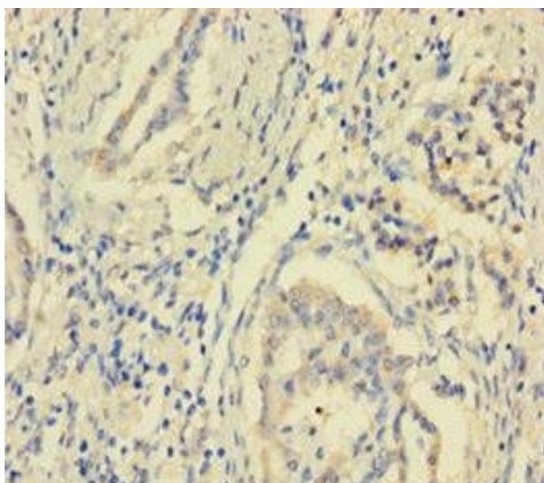
Buffer:	Preservative: 0.03 % Proclin 300 Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

## Images



### Immunofluorescence

**Image 1.** Immunofluorescence staining of PC-3 cells with ABIN7158949 at 1:266, counter-stained with DAPI. The cells were fixed in 4 % formaldehyde, permeabilized using 0.2 % Triton X-100 and blocked in 10 % normal Goat Serum. The cells were then incubated with the antibody overnight at 4 °C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



### Immunohistochemistry

**Image 2.** Immunohistochemistry of paraffin-embedded human pancreatic cancer using ABIN7158949 at dilution of 1:100