

Datasheet for ABIN303009

**anti-MCTS1 antibody**[Go to Product page](#)**1** Image

## Overview

Quantity:	50 µg
Target:	MCTS1
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MCTS1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

## Product Details

Immunogen:	Synthetic peptide
Isotype:	IgG
Specificity:	This antibody residues 3-14[KKFDEKENVSNC] of the 20 kDa MCT-1 protein.
Purification:	Immunoaffinity Chromatography

## Target Details

Target:	MCTS1
Alternative Name:	MCTS1 ( <a href="#">MCTS1 Products</a> )
Background:	Malignant T cell amplified sequence 1 (MCTS1) is an anti-oncogene that plays 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. When constitutively expressed, MCTS1 increases

## Target Details

CDK4 and CDK6 kinases activity and CCND1/cyclin D1 protein level, as well as G1 cyclin/CDK complex formation. MCTS1 plays a role as translation enhancer, and recruits the density-regulated protein/DENR and binds to the cap complex of the 5'-terminus of mRNAs, subsequently altering the mRNA translation profile, MCTS1 up-regulates protein levels of BCL2L2, TFDP1, MRE11A, CCND1 and E2F1, while mRNA levels remains constant. MCTS1 hyperactivates DNA damage signaling pathway, increased gamma-irradiation-induced phosphorylation of histone H2AX, and induces damage foci formation. MCTS1 increases the overall number of chromosomal abnormalities such as larger chromosomes formation and multiple chromosomal fusions when over-expressed in gamma-irradiated cells. MCTS1 may play a role in promoting lymphoid tumor development: lymphoid cell lines over-expressing MCTS1 exhibit increased growth rates and display increased protection against apoptosis. MCTS1 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. MCTS1 is involved in the process of proteosome degradation to down-regulate Tumor suppressor p53/TP53 in breast cancer cell, MCTS1 positively regulates phosphorylation of MAPK1 and MAPK3. Synonyms: MCT-1, MCT1, MCTS1, Malignant T cell amplified sequence 1

Gene ID:	28985
NCBI Accession:	<a href="#">NP_001131026</a>
UniProt:	<a href="#">Q9ULC4</a>

## Application Details

Application Notes:	Immunohistochemistry on paraffin sections: 20 µg/mL. Western Blot: 1: 500 - 1: 1000. ELISA. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

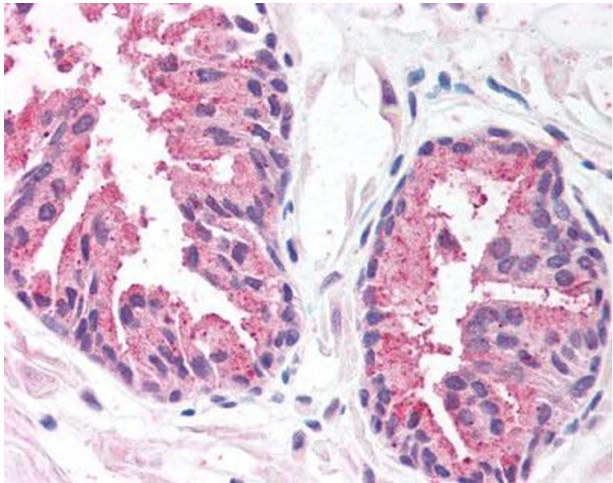
## Handling

Buffer:	PBS containing 0.02 % sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Handling

Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	Store the antibody undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.

## Images



**Image 1.**