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Datasheet for ABIN2779047
anti-MCTS1 antibody (N-Term)

1 Image

Overview

Quantity:	100 µL
Target:	MCTS1
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat, Cow, Dog, Guinea Pig, Zebrafish (Danio rerio), Rabbit
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MCTS1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human MCTS1
Sequence:	MFKKFDEKEN VSNCIQLKTS VIKGIKNQLI EQFPGIEPWL NQIMPKKDPV
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 100%, Human: 100%, Mouse: 93%, Rabbit: 93%, Rat: 93%, Zebrafish: 86%
Characteristics:	This is a rabbit polyclonal antibody against MCTS1. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	MCTS1
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Target Details

Alternative Name: MCTS1 ([MCTS1 Products](#))

Background: MCTS1 is an 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. When constitutively expressed, MCTS1 increases 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 multiples 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 proteasome degradation to down-regulate Tumor suppressor p53/TP53 in breast cancer cell, MCTS1 positively regulates phosphorylation of MAPK1 and MAPK3.

Alias Symbols: MCT-1, MCT1

Protein Interaction Partner: ASB6, IPO9, OGFOD1, STK26, UBXN1, ISOC1, TWF2, PROSC, TUBB4B, PDCD6IP, NAE1, USP5, YWHAE, UBA1, PTMA, TWF1, MYO1E, IPO5, HMGB3, HDGF, DHX15, ATIC, UBC, DENR, SUMO1,

Protein Size: 181

Molecular Weight: 20 kDa

Gene ID: 28985

NCBI Accession: [NM_014060](#), [NP_054779](#)

UniProt: [Q9ULC4](#)

Application Details

Application Notes: Optimal working dilutions should be determined experimentally by the investigator.

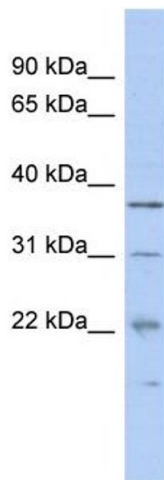
Comment: Antigen size: 181 AA

Restrictions: For Research Use only

Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
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 Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Images



Western Blotting

Image 1. WB Suggested Anti-MCTS1 Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:312500 Positive Control: COLO205 cell lysate MCTS1 is supported by BioGPS gene expression data to be expressed in COLO205