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MTLC Rabbit pAb

Catalog # AP97174

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q8N699
Other Accession	Q8N699
Reactivity	Human, Mouse
Predicted	Rat, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	26593
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human MTLC
Epitope Specificity	21-100/235
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the MYCT1 family.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	MTLC is a 235 amino acid nuclear protein that is thought to regulate certain myc target genes. Downregulated in gastric cancer tissues, MTLC is expressed in the hepatocellular carcinoma cell line, Bel7402. Overexpression of MTLC is thought to influence tumorigenic conversion, promotion of apoptosis genomic instability and inhibition of hematopoietic differentiation. The gene encoding MTLC maps to human chromosome 6, which contains 170 million base pairs and comprises nearly 6% of the human genome. Deletion of a portion of the q arm of chromosome 6 is associated with early onset intestinal cancer, suggesting the presence of a cancer susceptibility locus. Additionally, Porphyria cutanea tarda, Parkinson's disease, Stickler syndrome and a susceptibility to bipolar disorder are all associated with genes that map to chromosome 6.

Additional Information

Gene ID	80177
Other Names	MTLC; 1110020B04Rik; Mtmc1; MYCT1_HUMAN; MYCT1; Myc target in myeloid cells protein 1; MYCT1_MOUSE; MYC target 1
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	MYCT1
Synonyms	MTLC, MTMC1
Function	May regulate certain MYC target genes, MYC seems to be a direct upstream transcriptional activator. Does not seem to significantly affect growth cell capacity. Overexpression seems to mediate many of the known phenotypic features associated with MYC, including promotion of apoptosis, alteration of morphology, enhancement of anchorage-independent growth, tumorigenic conversion, promotion of genomic instability, and inhibition of hematopoietic differentiation (By similarity).
Cellular Location	Nucleus. Note=Expressed in nuclei of hepatocellular carcinoma cell line BEL-7402 cells
Tissue Location	Down-regulated in gastric cancer tissues.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.