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DMTF1 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17665b

Specification

DMTF1 Antibody (C-term) - Product Information

Application	**WB,E**
Primary Accession	Q9Y222
Other Accession	Q66HG1, Q8CE22, NP_001135798.1
Reactivity	**Human**
Predicted	**Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**84471**
Antigen Region	**588-616**

DMTF1 Antibody (C-term) - Additional Information

Gene ID 9988

Other Names
Cyclin-D-binding Myb-like transcription factor 1, hDMTF1, Cyclin-D-interacting Myb-like protein 1, hDMP1, DMTF1, DMP1

Target/Specificity
This DMTF1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 588-616 amino acids from the C-terminal region of human DMTF1.

Dilution
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
DMTF1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

DMTF1 Antibody (C-term) - Protein Information

Name DMTF1

Synonyms DMP1

Function Transcriptional activator which activates the CDKN2A/ARF locus in response to Ras-Raf signaling, thereby promoting p53/TP53- dependent growth arrest (By similarity). Binds to the consensus sequence 5'-CCCG[GT]ATGT-3' (By similarity). Isoform 1 may cooperate with MYB to activate transcription of the ANPEP gene. Isoform 2 may antagonize transcriptional activation by isoform 1.

Cellular Location
Nucleus {ECO:0000255|PROSITE-ProRule:PRU00625, ECO:0000269|PubMed:17936562}

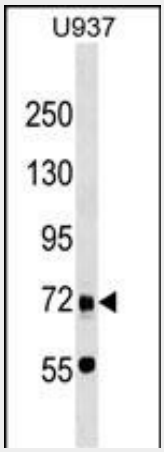
Tissue Location
Expressed at relatively low levels in colonic mucosa, ovary, peripheral leukocytes, prostate and small intestine, and at higher levels in spleen, testis and thymus. Expressed in multiple regions of the brain and CNS including amygdala, caudate, corpus callosum, hippocampus, substantia nigra and subthalamic nucleus Isoform 1 is the predominant isoform in monocytes, macrophages and neutrophils, isoform 2 is most strongly expressed in peripheral blood leukocytes and quiescent CD34 positive cells, and isoform 3 is expressed at low levels in all hematopoietic cell types. Expression is frequently reduced in non-small-cell lung carcinomas (NSCLC) due to hemizygous gene deletion, strongly suggesting that this locus is haploinsufficient for tumor suppression. Loss of this locus frequently occurs in tumors which retain wild-type CDKN2A/ARF and p53/TP53 loci Hemizygous gene deletion has also been observed in leukemic blasts from patients with abnormalities of the long arm of chromosome 7

DMTF1 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

DMTF1 Antibody (C-term) - Images



DMTF1 Antibody (C-term) (Cat. #AP17665b) western blot analysis in U937 cell line lysates

(35ug/lane).This demonstrates the DMTF1 antibody detected the DMTF1 protein (arrow).

DMTF1 Antibody (C-term) - Background

This gene encodes a transcription factor that contains a cyclin D-binding domain, three central Myb-like repeats, and two flanking acidic transactivation domains at the N- and C-termini. The encoded protein is induced by the oncogenic Ras signaling pathway and functions as a tumor suppressor by activating the transcription of ARF and thus the ARF-p53 pathway to arrest cell growth or induce apoptosis. It also activates the transcription of aminopeptidase N and may play a role in hematopoietic cell differentiation. The transcriptional activity of this protein is regulated by binding of D-cyclins. This gene is hemizygously deleted in approximately 40% of human non-small-cell lung cancer and is a potential prognostic and gene-therapy target for non-small-cell lung cancer. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq].

DMTF1 Antibody (C-term) - References

Liu, Y., et al. Mol. Psychiatry (2010) In press :
Sugiyama, T., et al. Expert Rev. Mol. Diagn. 8(4):435-447(2008)
Inoue, K., et al. Cancer Res. 68(12):4487-4490(2008)
Tschan, M.P., et al. Leukemia 22(5):1087-1090(2008)
Mallakin, A., et al. Cancer Cell 12(4):381-394(2007)