

**DMTF1 Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP17665b****Specification**

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**DMTF1 Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [Q9Y222](#)**DMTF1 Antibody (C-term) Blocking Peptide - 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

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**DMTF1 Antibody (C-term) Blocking Peptide - 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) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

### **DMTF1 Antibody (C-term) Blocking Peptide - Images**

### **DMTF1 Antibody (C-term) Blocking Peptide - Background**

This gene encodes a transcription factor that contains acyclin 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) Blocking Peptide - 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)