

DMTF1 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP58544

Product Information

Application IHC-P, IHC-F, IF, E

Primary Accession <u>Q9Y222</u>

Reactivity Rat, Pig, Dog, Bovine

HostRabbitClonalityPolyclonalCalculated MW84471

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

Dilution IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000

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 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

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