



Rabbit Anti-DMTF1 antibody

SL6891R

Product Name:	DMTF1
Chinese Name:	周期素D相互作用蛋白1抗体
Alias:	Cyclin D binding Myb like transcription factor 1; cyclin D binding myb like transcription factor 1D interacting myb like protein; Cyclin D interacting Myb like protein 1; Cyclin-D-binding Myb-like transcription factor 1; Cyclin-D-interacting Myb-like protein 1; D interacting myb like protein; DMP1; DMTF; dmtf1; DMTF1_HUMAN; hDMP1; hDMTF1; mDmp1.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	84kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human DMTF1:101-200/760
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
PubMed:	PubMed
Product Detail:	Transcriptional activator which activates the CDKN2A/ARF locus in response to Ras-Raf signaling, thereby promoting p53/TP53-dependent growth arrest. Binds to the consensus sequence 5'-CCCG[GT]ATGT-3'. Isoform 1 may cooperate with MYB to

activate transcription of the ANPEP gene. Isoform 2 may antagonize transcriptional activation by isoform 1.

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.

Subunit:

Interacts with the D-type cyclins CCND1, CCND2 and CCND3 (By similarity). Interaction with D-type cyclins may modulate transcriptional activation by this protein (By similarity).

Subcellular Location:

Nucleus.

Tissue Specificity:

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.

Post-translational modifications:

Phosphorylated by the cyclin-D2/CDK4, cyclin-D3/CDK4 and cyclin-D2/CDK6 complexes and to a lesser extent by the cyclin-D1/CDK4 complex (By similarity).

Similarity:

Belongs to the DMTF1 family.
Contains 1 HTH myb-type DNA-binding domain.
Contains 2 Myb-like domains.

SWISS:

Q9Y222

Gene ID:

9988

Database links:

[Entrez Gene: 9988](#)Human

[Entrez Gene: 23857](#)Mouse

[Entrez Gene: 114485](#)Rat

[Olim: 608491](#)Human

[SwissProt: Q9Y222](#)Human

[SwissProt: Q8CE22](#)Mouse

[SwissProt: Q66HG1](#)Rat

[Unigene: 196129](#)Human

[Unigene: 22480](#)Mouse

[Unigene: 116028](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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