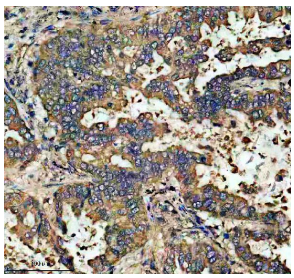
DMTF1 Antibody / Cyclin-D-binding Myb-like transcription factor 1 Antibody (FY13594)

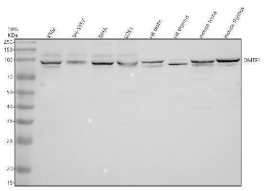
Catalog No.	Formulation	Size
FY13594	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

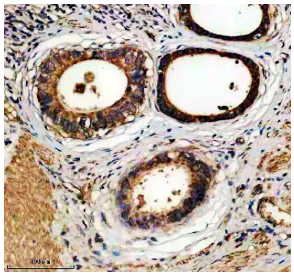
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Buffer	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
UniProt	Q9Y222
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 2-5ug/ml ELISA: 0.1-0.5 ug/ml
Limitations	This DMTF1 Antibody / Cyclin-D-binding Myb-like transcription factor 1 Antibody is intended for research use only.



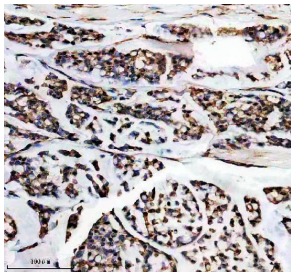
DMTF1 Antibody by IHC in human lung carcinoma. Immunohistochemistry of paraffin-embedded human lung carcinoma using Cyclin-D-binding Myb-like transcription factor 1 Antibody shows brown staining across malignant epithelial structures and associated tumor cells. Tissue sections underwent heat-mediated antigen retrieval in EDTA buffer (pH 8.0) and blocking with 10% goat serum. Primary antibody was applied at 2 ug/mL overnight at 4oC, followed by peroxidase-conjugated secondary antibody and DAB detection. Hematoxylin provides the blue nuclear counterstain.



DMTF1 Antibody by WB in human and rodent samples. Western blot analysis using Cyclin-D-binding Myb-like transcription factor 1 Antibody detects an immunoreactive band near 90 kDa in human K562 (lane 1), SH-SY5Y (lane 2), SiHa (lane 3), U251 (lane 4), rat testis (lane 5), rat thymus (lane 6), mouse testis (lane 7), and mouse thymus (lane 8). The calculated molecular weight is approximately 84.5 kDa. Reduced lysates containing 30 ug protein per lane were separated by 10% SDS-PAGE and transferred to nitrocellulose. Membranes were blocked with 5% nonfat milk and incubated with primary antibody at 0.5 ug/mL overnight at 4oC. An HRP-conjugated secondary antibody and chemiluminescent substrate were used for detection.



DMTF1 Antibody by IHC in human stomach carcinoma. Immunohistochemistry of paraffin-embedded human stomach carcinoma using Cyclin-D-binding Myb-like transcription factor 1 Antibody shows brown staining around gland-forming epithelial structures. Tissue sections underwent heat-mediated antigen retrieval in EDTA buffer (pH 8.0) and blocking with 10% goat serum. Primary antibody was applied at 2 ug/mL overnight at 4oC, followed by peroxidase-conjugated secondary antibody and DAB detection. Hematoxylin provides the blue nuclear counterstain.



DMTF1 Antibody by IHC in human breast carcinoma. Immunohistochemistry of paraffin-embedded human breast carcinoma using Cyclin-D-binding Myb-like transcription factor 1 Antibody shows brown staining in tumor cells within irregular glandular structures. Tissue sections underwent heat-mediated antigen retrieval in EDTA buffer (pH 8.0) and blocking with 10% goat serum. Primary antibody was applied at 2 ug/mL overnight at 4oC, followed by peroxidase-conjugated secondary antibody and DAB detection. Hematoxylin provides the blue nuclear counterstain.

Description

DMTF1 Antibody / Cyclin-D-binding Myb-like transcription factor 1 Antibody detects DMTF1, also known as DMP1, a transcriptional regulator with a Myb-related DNA-binding domain. DMTF1 participates in the control of cell proliferation and the response to oncogenic signaling. It was originally characterized through interactions with D-type cyclins, which are important regulators of cell-cycle progression. Unlike cyclin-dependent kinases, DMTF1 functions primarily through transcriptional regulation and interactions with other proteins that influence gene expression.

One well-studied aspect of DMTF1 biology is its connection to the ARF-p53 tumor suppressor pathway. In appropriate cellular contexts, DMTF1 can activate transcription of CDKN2A-derived ARF, which contributes to the stabilization and activity of p53 through regulation of MDM2. This pathway helps cells respond to excessive proliferative signals. DMTF1 can therefore link growth-promoting cues to mechanisms that restrain inappropriate cell-cycle progression. The protein also exists in alternatively spliced forms with distinct regulatory properties, complicating interpretation of total DMTF1 abundance. The Cyclin-D-binding Myb-like transcription factor 1 Antibody name refers to this same gene product.

DMTF1 has been studied in tumor biology because disruption of cell-cycle checkpoints can permit the expansion of cells carrying genetic damage. The relative abundance of different DMTF1 isoforms may influence transcriptional outcomes and interactions with growth-control pathways. These observations emphasize that DMTF1 cannot be understood solely as a direct binding partner of cyclin D. Its significance extends to transcriptional coordination of proliferative stress and tumor suppressor signaling. NSJ Bioreagents includes DMTF1 among factors associated with cell-cycle regulation and transcriptional control. A DMTF1 Antibody provides a way to investigate the molecular biology associated with this protein.

Explore related research targets in our Developmental Biology Antibodies collection.

Application Notes

Users should optimize the working dilution of the DMTF1 Antibody / Cyclin-D-binding Myb-like transcription factor 1 Antibody for their specific experimental setup.

Immunogen

The DMTF1 Antibody was generated using e. coli-derived human DMTF1 recombinant protein (amino acids N17-E715).

Storage

After reconstitution, the DMTF1 Antibody may be stored at 4oC for up to one month. For longer storage, aliquot and freeze at -20oC for up to six months. Avoid repeated freezing and thawing.

Alternate Names

DMTF1 antibody, Cyclin-D-binding Myb-like transcription factor 1 antibody, cyclin D binding myb like transcription factor 1 antibody, DMP1 antibody, hDMTF1 antibody, Cyclin-D-interacting Myb-like protein 1 antibody, hDMP1 antibody

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