

# Dmp1 (M-20): sc-6551

## BACKGROUND

The highly leukemogenic avian retrovirus E26 contains two oncogenes, v-Myb and v-Ets, which are expressed together as a fusion protein. The cellular homolog of v-Myb, designated c-Myb, encodes a transcription factor. Deletion or disruption of a negative regulatory domain mapping within the carboxy terminus of c-Myb results in enhanced transactivating capacity and in parallel, leads to activation of its ability to transform hemopoietic cells. c-Myb is expressed preferentially, but not exclusively, in immature hemopoietic cells and its expression decreases as cells differentiate. A second member of the Myb proto-oncogene family, B-Myb, encodes another sequence-specific DNA binding protein. Studies suggest that B-Myb expression rescues cells from p53-induced G<sub>1</sub> arrest mediated by p21. Dmp1 (also designated cyclin D binding Myb-like transcription factor 1) has also been identified as a Myb-like transcription factor. It contains three tandem Myb repeats and has been shown to be a substrate for cyclin D-dependent kinases.

## CHROMOSOMAL LOCATION

Genetic locus: DMTF1 (human) mapping to 7q21.12; Dmtf1 (mouse) mapping to 5 A1.

## SOURCE

Dmp1 (M-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of Dmp1 of mouse origin.

## PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-6551 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-6551 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

Dmp1 (M-20) is recommended for detection of Dmp1 (also designated cyclin D binding myb-like transcription factor 1) of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Dmp1 (M-20) is also recommended for detection of Dmp1 (also designated cyclin D binding myb-like transcription factor 1) in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for Dmp1 siRNA (h): sc-38068, Dmp1 siRNA (m): sc-38069, Dmp1 shRNA Plasmid (h): sc-38068-SH, Dmp1 shRNA Plasmid (m): sc-38069-SH, Dmp1 shRNA (h) Lentiviral Particles: sc-38068-V and Dmp1 shRNA (m) Lentiviral Particles: sc-38069-V.

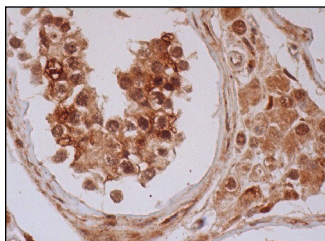
Dmp1 (M-20) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of Dmp1: 84 kDa.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941. 3) Immunohistochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

## DATA



Dmp1 (M-20): sc-6551. Immunoperoxidase staining of formalin fixed, paraffin-embedded human testis tissue showing nuclear and cytoplasmic staining of cells in seminiferous ducts and Leydig cells.

## SELECT PRODUCT CITATIONS

- Inoue, K., et al. 1999. Induction of ARF tumor suppressor gene expression and cell cycle arrest by transcription factor Dmp1. Proc. Natl. Acad. Sci. USA 96: 3993-3998.
- Konvalinkova-Krump, V., et al. 2003. Establishment and characterization of an angiosarcoma-derived cell line, AS-M. Endothelium 10: 319-328.

## STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.

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Try **Dmp1 (DMTF5I250): sc-81249**, our highly recommended monoclonal alternative to Dmp1 (M-20).