

DMBT1 (M-16): sc-14249

BACKGROUND

As human progress to advanced stages, one genetic alteration that occurs at high frequency is a loss of heterozygosity (LOH) at chromosome 10. Mapping of homozygous deletions on this chromosome led to the isolation of the PTEN (also designated MMAC1 and TEP1), DMBT1 (for deleted in malignant brain tumors 1) and LGI1 (for leucine-rich gene-glioma inactivated 1) candidate tumor suppressor genes. The PTEN gene exhibits a high frequency of mutations in human glioblastomas and is also mutated in other cancers, including sporadic brain, breast, kidney and prostate cancers. Reduced levels of DMBT1 mRNA have been noted in gastrointestinal and esophageal cancers as well as in gliomas. LGI1, which is highly specific for neural tissues, shares homology with several transmembrane and extracellular proteins that function as receptors and adhesion proteins.

REFERENCES

1. Bigner, S.H., et al. 1988. Specific chromosomal abnormalities in malignant human gliomas. *Cancer Res.* 48: 405-411.
2. James, C.D., et al. 1988. Clonal genomic alterations in glioma malignancy stages. *Cancer Res.* 48: 5546-5551.

CHROMOSOMAL LOCATION

Genetic locus: DMBT1 (human) mapping to 10q26.13; Dmbt1 (mouse) mapping to 7 F3.

SOURCE

DMBT1 (M-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of DMBT1 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.

Blocking peptide available for competition studies, sc-14249 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

DMBT1 (M-16) is recommended for detection of DMBT1a, DMBT1b and DMBT1c of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000). DMBT1 (M-16) is also recommended for detection of DMBT1a, DMBT1b and DMBT1c in additional species, including bovine. Suitable for use as control antibody for DMBT1 siRNA (h): sc-35196, DMBT1 siRNA (m): sc-35197, DMBT1 shRNA Plasmid (h): sc-35196-SH, DMBT1 shRNA Plasmid (m): sc-35197-SH, DMBT1 shRNA (h) Lentiviral Particles: sc-35196-V and DMBT1 shRNA (m) Lentiviral Particles: sc-35197-V.

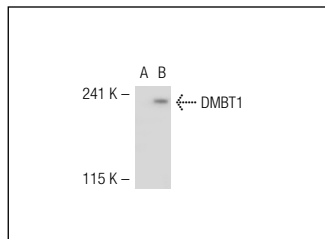
Molecular Weight of DMBT1: 200 kDa.

Positive Controls: DMBT1 (h): 293T Lysate: sc-112667, HeLa whole cell lysate: sc-2200 or A-431 whole cell lysate: sc-2201.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



DMBT1 (M-16): sc-14249. Western blot analysis of DMBT1 expression in non-transfected: sc-117752 (A) and human DMBT1 transfected: sc-112667 (B) 293T whole cell lysates.

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 or our catalog for detailed protocols and support products.

MONOS
Satisfaction
Guaranteed

Try **DMBT1 (G-4): sc-514566** or **DMBT1 (H-4): sc-514887**, our highly recommended monoclonal alternatives to DMBT1 (M-16).