SANTA CRUZ BIOTECHNOLOGY, INC.

MAGE-B18 (N-13): sc-131177

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

The melanoma-associated antigen (MAGE) family consists of a number of antigens recognized by cytotoxic T lymphocytes. The MAGE genes were initially isolated from different kinds of tumors and, based on their virtually exclusive tumor-specific expression in adult tissues, they have been used as targets for cancer immunotherapy. MAGE genes encode for tumor-rejection antigens that are expressed in tumors of different histologic types and in normal testes and placenta. MAGE-B18 (melanoma-associated antigen B18) is a 343 amino acid protein that contains one MAGE domain and may be involved in tumorigenesis. The gene encoding MAGE-B18 maps to human chromosome X, which contains nearly 153 million base pairs and houses over 1,000 genes.

REFERENCES

1. Graf, L.H. and Ferrone, S. 1989. Human melanoma-associated antigens. Immunol. Ser. 43: 643-679.
2. Merimsky, O., et al. 1994. Antigens and antibodies in malignant melanoma. Tumour Biol. 15: 188-202.
3. Rogner, U.C., et al. 1995. The melanoma antigen gene (MAGE) family is clustered in the chromosomal band Xq28. Genomics 29: 725-731.
4. Sarantou, T., et al. 1997. Melanoma-associated antigens as messenger RNA detection markers for melanoma. Cancer Res. 57: 1371-1376.

CHROMOSOMAL LOCATION

Genetic locus: MAGEB18 (human) mapping to Xp21.3.

SOURCE

MAGE-B18 (N-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of MAGE-B18 of human 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-131177 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

MAGE-B18 (N-13) is recommended for detection of MAGE-B18 of 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); non cross-reactive with other MAGE family members.

Suitable for use as control antibody for MAGE-B18 siRNA (h): sc-91351, MAGE-B18 shRNA Plasmid (h): sc-91351-SH and MAGE-B18 shRNA (h) Lentiviral Particles: sc-91351-V.

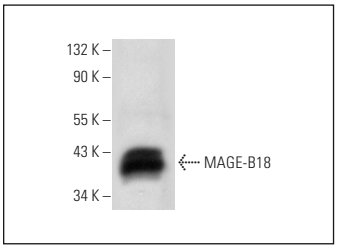
Molecular Weight of MAGE-B18: 39 kDa.

Positive Controls: MCF7 whole cell lysate: sc-2206 or A549 cell lysate: sc-2413.

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



MAGE-B18 (N-13): sc-131177. Western blot analysis of MAGE-B18 expression in MCF7 whole cell lysate.

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.