SANTA CRUZ BIOTECHNOLOGY, INC.

MAGE-E1 (V-20): sc-68617

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 and are expressed in tumors of different histologic types, but not in normal tissues, with the exception of testis and placenta. Although a large number of MAGE genes have now been identified and extensively studied in tumors of various origin, their function in normal cells remains unknown. MAGE-E1 (melanoma-associated antigen E1), also known as Hepatocellular carcinoma-associated protein 1, is a 957 amino acid protein that contains two MAGE domains, which are the only regions of homology shared by all members of the MAGE family.

REFERENCES

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6. Wang, W.X., Li, Y.B., Xie, X.L., Shu, X.L. and Ouyang, X.H. 2009. Detection of tumor cells in peripheral blood of patients with gastric cancer using mRNA of MAGE genes as markers. Zhonghua Wei Chang Wai Ke Za Zhi. 12: 611-614.

CHROMOSOMAL LOCATION

Genetic locus: MAGEE1 (human) mapping to Xq13.3; Magee1 (mouse) mapping to X D.

SOURCE

MAGE-E1 (V-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of MAGE-E1 of human origin.

STORAGE

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

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-68617 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

MAGE-E1 (V-20) is recommended for detection of MAGE-E1 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for MAGE-E1 siRNA (h): sc-75736, MAGE-E1 siRNA (m): sc-75737, MAGE-E1 shRNA Plasmid (h): sc-75736-SH, MAGE-E1 shRNA Plasmid (m): sc-75737-SH, MAGE-E1 shRNA (h) Lentiviral Particles: sc-75736-V and MAGE-E1 shRNA (m) Lentiviral Particles: sc-75737-V.

Molecular Weight of MAGE-E1: 103 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.

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.