SANTA CRUZ BIOTECHNOLOGY, INC.

MAGE-A11 (YN-2): sc-101222

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 and are expressed in tumors of different histologic types and in normal testis and placenta. MAGE-A11 (melanoma antigen family A, 11), also known as MAGE11, MAGE-11, MAGEA-11 or CT1.11 (cancer/testis antigen 1.11), is a 429 amino acid protein that localizes to both the nucleus and the cytoplasm and contains one MAGE domain. Expressed in a variety of tumors, including melanoma, breast cancer and lung cancer, MAGE-A11 functions as an androgen receptor (AR) co-regulator that modulates the interdomain of AR, thereby increasing its activity. Through its regulation of AR, MAGE-A11 is thought to play an important role in embryonic development and tumor progression/transformation. Two isoforms of MAGE-A11 exist due to alternative splicing events.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: MAGEA11 (human) mapping to Xq28.

SOURCE

MAGE-A11 (YN-2) is a mouse monoclonal antibody raised against recombinant MAGE-A11 of human origin.

PRODUCT

Each vial contains 200 µl ascites containing IgM with < 0.1% sodium azide.

APPLICATIONS

MAGE-A11 (YN-2) is recommended for detection of MAGE-A11 of human origin by Western Blotting (starting dilution to be determined by researcher, dilution range 1:100-1:5000), immunoprecipitation [1-2 µl per 100-500 µg of total protein (1 ml of cell lysate)] and solid phase ELISA (starting dilution to be determined by researcher, dilution range 1:100-1:5000).

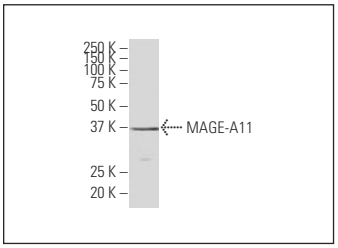
Suitable for use as control antibody for MAGE-A11 siRNA (h): sc-108016, MAGE-A11 shRNA Plasmid (h): sc-108016-SH and MAGE-A11 shRNA (h) Lentiviral Particles: sc-108016-V.

Molecular Weight of full length MAGE-A11: 70 kDa.

Molecular Weight of truncated MAGE-A11: 40 kDa.

Positive Controls: K-562 whole cell lysate: sc-2203.

DATA



MAGE-A11 (YN-2): sc-101222. Western blot analysis of MAGE-A11 expression in K-562 whole cell lysate.

STORAGE

For immediate and continuous use, store at 4° C for up to one month. For sporadic use, freeze in working aliquots in order to avoid repeated freeze/thaw cycles. If turbidity is evident upon prolonged storage, clarify solution by centrifugation.

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.