

# MAGE-A11 (N-16): sc-130162

## 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 testes 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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3. Jurk, M., et al. 1998. MAGE-11 protein is highly conserved in higher organisms and located predominantly in the nucleus. *Int. J. Cancer* 75: 762-766.
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5. Serrano, A., et al. 1999. Quantitative evaluation of the expression of MAGE genes in tumors by limiting dilution of cDNA libraries. *Int. J. Cancer* 83: 664-669.
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7. Bai, S., et al. 2005. Melanoma antigen gene protein MAGE-11 regulates androgen receptor function by modulating the interdomain interaction. *Mol. Cell. Biol.* 25: 1238-1257.
8. Askew, E.B., et al. 2007. Modulation of androgen receptor activation function 2 by testosterone and dihydrotestosterone. *J. Biol. Chem.* 282: 25801-25816.
9. Bai, S. and Wilson, E.M. 2008. Epidermal-growth-factor-dependent phosphorylation and ubiquitinylation of MAGE-11 regulates its interaction with the androgen receptor. *Mol. Cell. Biol.* 28: 1947-1963.

## CHROMOSOMAL LOCATION

Genetic locus: MAGEA11 (human) mapping to Xq28.

## SOURCE

MAGE-A11 (N-16) is a purified rabbit polyclonal antibody raised against a peptide mapping near the N-terminus of MAGE-A11 of human origin.

## PRODUCT

Each vial contains 100 µg IgG in 1.0 ml PBS with < 0.1% sodium azide and 0.1% gelatin.

## APPLICATIONS

MAGE-A11 (N-16) is recommended for detection of MAGE-A11 of human origin by 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).

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 MAGE-A11 full length: 70 kDa.

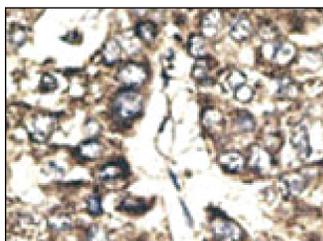
Molecular Weight of truncated MAGE-A11: 40 kDa.

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

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz<sup>™</sup> Mounting Medium: sc-24941. 2) Immunohistochemistry: use ImmunoCruz<sup>™</sup>: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

## DATA



MAGE-A11 (N-16): sc-130162. Immunoperoxidase staining of formalin fixed, paraffin-embedded human cancer tissue showing cytoplasmic staining.

## 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.