

MAGE-A9 (G-24): sc-130811

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 as well as in normal testis and placenta. MAGE-A9 (melanoma-associated antigen 9), also known as MAGE9 or CT1.9 (cancer/testis antigen 1.9), is a 315 amino acid protein that contains one MAGE domain. Like most MAGE family members, MAGE-A9 is expressed in several types of tumors, including lung cancer, breast cancer and melanoma, and is thought to play an important role in tumor progression and transformation. Additionally, MAGE-A9 may be involved in embryonic development.

REFERENCES

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2. Rogner, U.C., et al. 1995. The melanoma antigen gene (MAGE) family is clustered in the chromosomal band Xq28. *Genomics* 29: 725-731.
3. 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.
4. Lee, J.H., et al. 2000. Identification, expression and nuclear location of murine MAGE-B2 protein, a tumor-associated antigen. *Mol. Cells* 10: 647-653.
5. Online Mendelian Inheritance in Man, OMIM[™]. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 300342. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
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CHROMOSOMAL LOCATION

Genetic locus: MAGEA9 (human) mapping to Xq28.

SOURCE

MAGE-A9 (G-24) is a purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of MAGE-A9 of human origin.

PRODUCT

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

RESEARCH USE

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

APPLICATIONS

MAGE-A9 (G-24) is recommended for detection of MAGE-A9 of 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), 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-A9 siRNA (h): sc-106189, MAGE-A9 shRNA Plasmid (h): sc-106189-SH and MAGE-A9 shRNA (h) Lentiviral Particles: sc-106189-V.

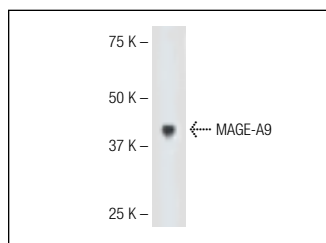
Molecular Weight of MAGE-A9: 35 kDa.

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

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker[™] compatible goat anti-rabbit IgG-HRP: sc-2030 (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 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[™] Mounting Medium: sc-24941. 3) Immunohistochemistry: use ImmunoCruz[™]: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

DATA



MAGE-A9 (G-24): sc-130811. Western blot analysis of MAGE-A9 expression in human placenta tissue extract.

STORAGE

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

MONOS
Satisfaction
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Try **MAGE-A (A-1): sc-515687**, our highly recommended monoclonal alternative to MAGE-A9 (G-24).