

MAGE (A-16): sc-31321

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.

REFERENCES

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- Granelli, P., et al. 2000. Melanoma antigen genes 1 and 2 are differentially expressed in human gastric and cardiac carcinomas. *Scand. J. Gastroenterol.* 35: 528-533.
- Klein, C., et al. 2000. Comparative analysis of genetically modified dendritic cells and tumor cells as therapeutic cancer vaccines. *J. Exp. Med.* 191: 1699-1708.
- Busam, K.J., et al. 2000. Immunoreactivity with the anti-MAGE antibody 57B in malignant melanoma: frequency of expression and correlation with prognostic parameters. *Mod. Pathol.* 13: 459-465.
- Kobayashi, Y., et al. 2000. Expression of MAGE, GAGE and BAGE genes in human liver diseases: utility as molecular markers for hepatocellular carcinoma. *J. Hepatol.* 32: 612-617.
- Luiten, R., et al. 2000. A MAGE-A1 peptide is recognized on HLA-B7 human tumors by cytolytic T lymphocytes. *Tissue Antigens* 55: 149-152.
- Osterlund, C., et al. 2000. MAGE-B4, a novel melanoma antigen (MAGE) gene specifically expressed during germ cell differentiation. *Cancer Res.* 60: 1054-1061.

SOURCE

MAGE (A-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of MAGE-A1 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-31321 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

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.

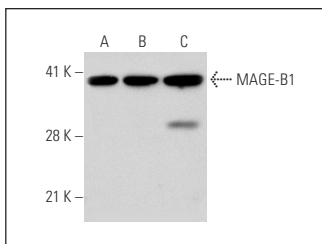
APPLICATIONS

MAGE (A-16) is recommended for detection of a broad range of MAGE family members of human and, to a lesser extent, mouse and rat 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), 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).

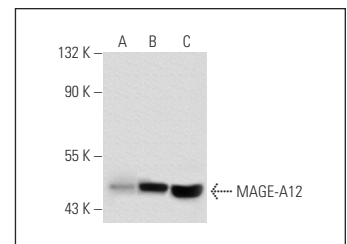
Molecular Weight of MAGE family members: 34-46 kDa.

Positive Controls: MAGE-A12 (h): 293 Lysate: sc-110824, SK-MEL-28 cell lysate: sc-2236 or A-375 cell lysate: sc-3811.

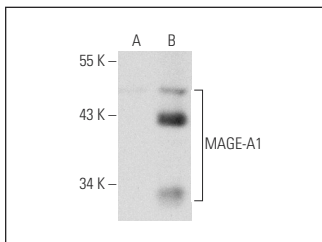
DATA



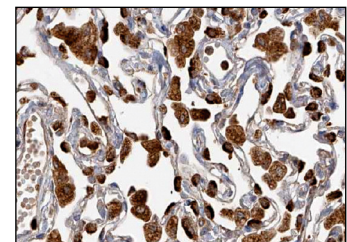
MAGE (A-16): sc-31321. Western blot analysis of MAGE-B1 expression in non-transfected 293T: sc-117752 (A), human MAGE-B1 transfected 293T: sc-113270 (B) and A-673 (C) whole cell lysates.



MAGE (A-16): sc-31321. Western blot analysis of MAGE-A12 expression in non-transfected 293T: sc-117752 (A), human MAGE-A12 transfected 293T: sc-175999 (B) and A-375 (C) whole cell lysates.



MAGE (A-16): sc-31321. Western blot analysis of MAGE-A1 expression in non-transfected: sc-110760 (A) and human MAGE-A1 transfected: sc-112260 (B) 293 whole cell lysates.



MAGE (A-16): sc-31321. Immunoperoxidase staining of formalin fixed, paraffin-embedded human lung tissue showing cytoplasmic staining of macrophages and pneumocytes at high magnification. Kindly provided by The Swedish Human Protein Atlas (HPA) program.

PROTOCOLS

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

MONOS
Satisfaction
Guaranteed

Try **MAGE (6A111): sc-71537** or **MAGE (B-5): sc-365150**, our highly recommended monoclonal alternatives to MAGE (A-16).