



# MAGE-C2 (N-20): sc-68604

## 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 tumor-rejection antigens that are expressed in tumors of different histologic types and in normal testes and placenta. MAGE-C2 (melanoma antigen family C, 2), also known as CT10, HCA587 or MAGEE1, is a 373 amino acid protein that localizes to both the nucleus and the cytoplasm and contains one MAGE domain. Expressed at high levels in spermatogonia and primary spermatocytes and present at lower levels in mature spermatids, MAGE-C2 is involved in the pathogenesis of various tumors and is encoded by a gene which maps to human chromosome X.

## REFERENCES

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4. Sarantou, T., Chi, D.D., Garrison, D.A., Conrad, A.J., Schmid, P., Morton, D.L. and Hoon, D.S. 1997. Melanoma-associated antigens as messenger RNA detection markers for melanoma. *Cancer Res.* 57: 1371-1376.
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6. Ma, W., Germeau, C., Vigneron, N., Maernoudt, A.S., Morel, S., Boon, T., Coulie, P.G. and Van den Eynde, B.J. 2004. Two new tumor-specific antigenic peptides encoded by gene MAGE-C2 and presented to cytolytic T lymphocytes by HLA-A2. *Int. J. Cancer* 109: 698-702.
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## CHROMOSOMAL LOCATION

Genetic locus: MAGEC2 (human) mapping to Xq27.2.

## STORAGE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.

## SOURCE

MAGE-C2 (N-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of MAGE-C2 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-68604 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

MAGE-C2 (N-20) is recommended for detection of melanoma-associated antigen C2 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for MAGE-C2 siRNA (h): sc-62580, MAGE-C2 shRNA Plasmid (h): sc-62580-SH and MAGE-C2 shRNA (h) Lentiviral Particles: sc-62580-V.

Molecular Weight of MAGE-C2: 41 kDa.

Positive Controls: 293T whole cell lysate.

## 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.