

MAGE-L2 (E-13): sc-164951

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 that are expressed in tumors of different histologic types and in normal testis and placenta. MAGE-L2 (MAGE-like protein 2), also known as nM15 or NDNL1 (necdin-like 1), is a 529 amino acid protein that contains one MAGE domain. Expressed in brain and placenta, MAGE-L2 is encoded by a gene that maps to human chromosome 15q11.2. Defects in the MAGE-L2 gene are linked to the development of Prader-Willi syndrome (PWS).

REFERENCES

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- Lee, S., et al. 2000. Expression and imprinting of MAGEL2 suggest a role in Prader-willli syndrome and the homologous murine imprinting phenotype. *Hum. Mol. Genet.* 9: 1813-1819.
- Lee, S., et al. 2005. Essential role for the Prader-Willi syndrome protein necdin in axonal outgrowth. *Hum. Mol. Genet.* 14: 627-637.
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- Fukuo, Y., et al. 2010. Lack of association between MAGEL2 and schizophrenia and mood disorders in the Japanese population. *Neuromolecular Med.* 12: 285-291.

CHROMOSOMAL LOCATION

Genetic locus: MAGEL2 (human) mapping to 15q11.2; Magel2 (mouse) mapping to 7 C.

SOURCE

MAGE-L2 (E-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of MAGE-L2 of human origin.

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 or our catalog for detailed protocols and support products.

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-164951 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

MAGE-L2 (E-13) is recommended for detection of MAGE-L2 of mouse, rat and 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-L2 siRNA (h): sc-90089, MAGE-L2 siRNA (m): sc-149227, MAGE-L2 shRNA Plasmid (h): sc-90089-SH, MAGE-L2 shRNA Plasmid (m): sc-149227-SH, MAGE-L2 shRNA (h) Lentiviral Particles: sc-90089-V and MAGE-L2 shRNA (m) Lentiviral Particles: sc-149227-V.

Molecular Weight of MAGE-L2: 59 kDa.

Positive Controls: EOC 20 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.