

# MAGE-L2 (T-14): sc-164954

## 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 testes 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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- Boccaccio, I., et al. 1999. The human MAGEL2 gene and its mouse homologue are paternally expressed and mapped to the Prader-Willi region. *Hum. Mol. Genet.* 8: 2497-2505.
- 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.
- Kozlov, S.V., et al. 2007. The imprinted gene Magel2 regulates normal circadian output. *Nat. Genet.* 39: 1266-1272.
- Online Mendelian Inheritance in Man, OMIM<sup>™</sup>. 2008. Johns Hopkins University, Baltimore, MD. MIM Number: 605283. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
- 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 (mouse) mapping to 7 C.

## SOURCE

MAGE-L2 (T-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of MAGE-L2 of mouse 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-164954 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## RESEARCH USE

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

## APPLICATIONS

MAGE-L2 (T-14) is recommended for detection of MAGE-L2 of 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

MAGE-L2 (T-14) is also recommended for detection of MAGE-L2 in additional species, including canine and porcine.

Suitable for use as control antibody for MAGE-L2 siRNA (m): sc-149227, MAGE-L2 shRNA Plasmid (m): sc-149227-SH and MAGE-L2 shRNA (m) Lentiviral Particles: sc-149227-V.

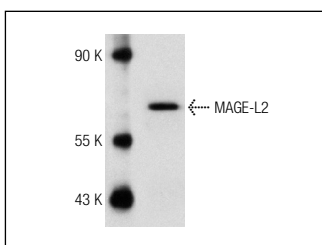
Molecular Weight of MAGE-L2: 59 kDa.

Positive Controls: EOC 20 whole cell lysate: sc-364187.

## 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<sup>™</sup> compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker<sup>™</sup> Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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<sup>™</sup> Mounting Medium: sc-24941.

## DATA



MAGE-L2 (T-14): sc-164954. Western blot analysis of MAGE-L2 expression in EOC 20 whole cell lysate.

## 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.