# MAGE-D4/MAGE-D4B (A-20): sc-68610



The Power to Question

#### **BACKGROUND**

MAGE-D4 (Melanoma-associated antigen D4, MAGE-E1 antigen) and MAGE-D4B (Melanoma-associated antigen D4B) are 741 amino acid proteins encoded by the human gene MAGED4 and MAGED4B, respectively. Genes of the MAGE family direct the expression of tumor antigens that are recognized on human melanomas by autologous cytolytic T lymphocytes. MAGE-D4/MAGE-D4B are believed to be glioma-specific members of MAGE family. Among cancer cells, only in glioma cells are both isoforms of MAGE-D4/MAGE-D4B specifically expressed. Among normal tissues, MAGE-D4/MAGE-D4B are expressed only in brain and ovary. Although MAGE-D4/MAGE-D4B are expressed at high levels in malignant tumors as compared to normal tissue, MAGE-D4/MAGE-D4B protein expression is not considered to be of prognostic significance.

# **REFERENCES**

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- Wang, L., et al. 2004. Cloning of human testicular carcinoma antigen MAGE-E1 gene and its expression in E.coli. Xi Bao Yu Fen Zi Mian Yi Xue Za Zhi 19: 148-149.
- 4. Lurquin, C., et al. 2005. Contrasting frequencies of antitumor and antivaccine T cells in metastases of a melanoma patient vaccinated with a MAGE tumor antigen. J. Exp. Med. 201: 249-257.
- 5. Krämer, B.F., et al. 2005. MAGED4-expression in renal cell carcinoma and identification of an HLA-A\*25-restricted MHC class I ligand from solid tumor tissue. Cancer Biol. Ther. 4: 943-948.
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- 7. Liang, Z., et al. 2006. The expression of 11 cancer/testis (CT) antigen genes in esophageal carcinoma. Zhonghua Zhong Liu Za Zhi 27: 534-537.
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# CHROMOSOMAL LOCATION

Genetic locus: MAGED4/MAGED4B (human) mapping to Xp11.22.

# SOURCE

MAGE-D4/MAGE-D4B (A-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of MAGE-D4 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.

#### **PRODUCT**

Each vial contains 200  $\mu g$  IgG in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-68610 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

# **APPLICATIONS**

MAGE-D4/MAGE-D4B (A-20) is recommended for detection of MAGE-D4 and MAGE-D4B of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g 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).

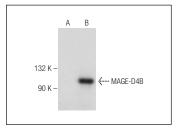
Molecular Weight of MAGE-D4/MAGE-D4B: 82 kDa.

Positive Controls: MAGE-D4B (h): 293T Lysate: sc-369074.

### **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) 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™ Mounting Medium: sc-24941.

# **DATA**



MAGE-D4/MAGE-D4B (A-20): sc-68610. Western blot analysis of MAGE-D4B expression in non-transfected: sc-117752 (A) and human MAGE-D4B transfected: sc-369074 (B) 293T whole cell Ivsates.

#### **RESEARCH USE**

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

# **PROTOCOLS**

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

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