

# MAGE-E1 (D-20): sc-68616

## 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. MAGE-E1 (melanoma-associated antigen E1), also known as Hepatocellular carcinoma-associated protein 1, is a 957 amino acid protein that contains two MAGE domains, which are the only regions of homology shared by all members of the MAGE family.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: MAGEE1 (human) mapping to Xq13.3; Magee1 (mouse) mapping to X D.

## SOURCE

MAGE-E1 (D-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of MAGE-E1 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-68616 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

MAGE-E1 (D-20) is recommended for detection of MAGE-E1 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-E1 siRNA (h): sc-75736, MAGE-E1 siRNA (m): sc-75737, MAGE-E1 shRNA Plasmid (h): sc-75736-SH, MAGE-E1 shRNA Plasmid (m): sc-75737-SH, MAGE-E1 shRNA (h) Lentiviral Particles: sc-75736-V and MAGE-E1 shRNA (m) Lentiviral Particles: sc-75737-V.

Molecular Weight of MAGE-E1: 103 kDa.

## 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.

## PROTOCOLS

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