MAGE-A (6C1): sc-20034

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.

SOURCE

MAGE-A (6C1) is a mouse monoclonal antibody raised against a recombinant protein corresponding to full length MAGE-A of human origin.

PRODUCT

Each vial contains 200 µg IgG2a kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

MAGE-A (6C1) is available conjugated to agarose (sc-20034 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-20034 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-20034 PE), fluorescein (sc-20034 FITC), Alexa Fluor® 488 (sc-20034 AF488), Alexa Fluor® 546 (sc-20034 AF546), Alexa Fluor® 594 (sc-20034 AF594) or Alexa Fluor® 647 (sc-20034 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-20034 AF680) or Alexa Fluor® 790 (sc-20034 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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APPLICATIONS

MAGE-A (6C1) is recommended for detection of MAGE-A1, MAGE-A2, MAGE-A3, MAGE-A4, MAGE-A6, MAGE-A10 and MAGE-A12 of mouse, rat and human 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), immunohistochemistry (including paraffin-embedded sections) (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-A10: 41 kDa.


STORAGE

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

DATA

MAGE-A (6C1): sc-20034. Western blot analysis of MAGE-A2 expression in non-transfected: sc-117752 (A) and human MAGE-A2 transfected: sc-368093 (B) 293T whole cell lysates and human liver tissue extract (C).

MAGE-A (6C1): sc-20034. Immunofluorescence staining of methanol-fixed HeLa cells showing cytoplasmic localization (A), and to either Alexa Fluor® 488 (sc-20034 AF488) or Alexa Fluor® 790 (sc-20034 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

SELECT PRODUCT CITATIONS


RESEARCH USE

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