

Melan-A (O.N.396): sc-71567

BACKGROUND

Melanoma-associated antigens recognized by cytotoxic T lymphocytes (CTL) have been grouped into three categories: melanocyte differentiation antigens, cancer/testis-specific antigens and mutated or aberrantly expressed antigens. Many of these antigens consist of peptides that are presented to T cells by HLA molecules; they represent potential targets for cancer immunotherapy. Melan-A (also designated MART-1) is a melanocyte differentiation antigen that is specific to melanomas, melanocyte cell lines and retina. Melan-A peptide is recognized by most HLA-A2-restricted tumor-specific tumor-infiltrating lymphocytes in patients with melanoma. Antimelanoma cytotoxic T lymphocytes can be generated with a Melan-A peptide, implicating Melan-A as a potential candidate for antigen-specific immunotherapy in melanoma patients.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: MLANA (human) mapping to 9p24.1.

SOURCE

Melan-A (O.N.396) is a mouse monoclonal antibody raised against recombinant Melan-A of human origin.

PRODUCT

Each vial contains 200 µg IgG_{2b} in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

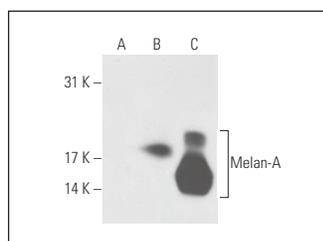
Melan-A (O.N.396) is recommended for detection of Melan-A of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500).

Suitable for use as control antibody for Melan-A siRNA (h): sc-35920, Melan-A shRNA Plasmid (h): sc-35920-SH and Melan-A shRNA (h) Lentiviral Particles: sc-35920-V.

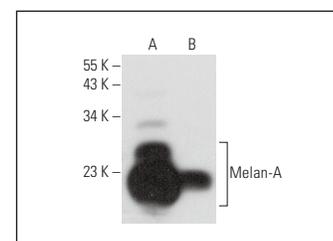
Molecular Weight of acylated Melan-A: 20-24 kDa.

Positive Controls: Melan-A (h2): 293T Lysate: sc-159493, C32 whole cell lysate: sc-2205 or SK-MEL-28 cell lysate: sc-2236.

DATA



Melan-A (O.N.396): sc-71567. Western blot analysis of Melan-A expression in non-transfected 293T: sc-117752 (A), human Melan-A transfected 293T: sc-159493 (B) and SK-MEL-28 (C) whole cell lysates.



Melan-A (O.N.396): sc-71567. Western blot analysis of Melan-A expression in SK-MEL-28 (A) and C32 (B) whole cell lysates.

STORAGE

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

RESEARCH USE

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

PROTOCOLS

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



See **Melan-A (A103): sc-20032** for Melan-A antibody conjugates, including AC, HRP, FITC, PE, and Alexa Fluor® 488, 546, 594, 647, 680 and 790.