**BACKGROUND**

NY-ESO-1, also known as autoimmunogenic cancer/testis antigen, is a tumor-specific shared antigen with distinctive immunogenicity. NY-ESO-1 is a member of the cancer/testis (CT) family of human tumor-associated antigens. NY-ESO-1 is an attractive candidate tumor antigen for the development of immunotherapy for a wide variety of cancers. NY-ESO-1 is expressed in multiple types of tumors, but its normal tissue distribution is primarily limited to testis and ovary. In addition, NY-ESO-1 elicits frequent antibody responses in cancer patients that are accompanied by strong CD8+ T cell responses against HLA-A2-restricted epitopes. Therefore, both humoral and cellular immune responses can be mounted against NY-ESO-1.

**CHROMOSOMAL LOCATION**

Genetic locus: CTAG1B (human) mapping to Xq28.

**SOURCE**

NY-ESO-1 (E978) is a mouse monoclonal antibody raised against recombinant NY-ESO-1 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

NY-ESO-1 (E978) is available conjugated to agarose (sc-53869 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-53869 HRP), 200 µg/ml, for WB, IHC (P) and ELISA; to either phycoerythrin (sc-53869 PE), fluorescein (sc-53869 FITC), Alexa Fluor® 488 (sc-53869 AF488), Alexa Fluor® 546 (sc-53869 AF546), Alexa Fluor® 594 (sc-53869 AF594) or Alexa Fluor® 647 (sc-53869 AF647), 200 µg/ml, for WB (RGB), IF, IHC (P) and FCM; and to either Alexa Fluor® 680 (sc-53869 AF680) or Alexa Fluor® 790 (sc-53869 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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**APPLICATIONS**

NY-ESO-1 (E978) is recommended for detection of NY-ESO-1 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 NY-ESO-1 siRNA (h): sc-37321, NY-ESO-1 shRNA Plasmid (h): sc-37321-SH and NY-ESO-1 shRNA (h) Lentiviral Particles: sc-37321-V.

Molecular Weight of NY-ESO-1: 22 kDa.

Positive Controls: U266 nuclear extract or U266 whole cell lysate: sc-364800.

**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.

**DATA**

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

**SELECT PRODUCT CITATIONS**


**PROTOCOLS**

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