**Melanoma Marker (HMB45): sc-59305**

**BACKGROUND**
Malignant melanoma is a malignant neoplasm of melanocytes, arising de novo or from a pre-existing benign nevus, which occurs most often in the skin but also may involve other sites. It underlies the majority of skin cancer-related deaths. Melanoma originates in melanocytes, the cells which produce the pigment melanin that colors our skin, hair and eyes and is heavily concentrated in most moles. Epidemiologic studies suggest that exposure to ultraviolet radiation is one of the major contributors to the development of melanoma. The four most common types of melanoma in the skin are: superficial spreading melanomas, which evolve from a precursor lesion (usually a dysplastic nevus), nodular melanomas, the most aggressive form, acral lentiginous melanomas, which are seen on the soles, palms and under the nails, and Lentigo malignas, which consist of malignant cells but do not show invasive growth.

**SOURCE**
Melanoma Marker (HMB45) is a mouse monoclonal antibody raised against extract of pigmented melanoma metastases from lymph nodes 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.

Melanoma Marker (HMB45) is available conjugated to agarose (sc-59305 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-59305 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-59305 PE), fluorescein (sc-59305 FITC), Alexa Fluor® 488 (sc-59305 AF488), Alexa Fluor® 546 (sc-59305 AF546), Alexa Fluor® 594 (sc-59305 AF594) or Alexa Fluor® 647 (sc-59305 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-59305 AF680) or Alexa Fluor® 790 (sc-59305 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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**APPLICATIONS**
Melanoma Marker (HMB45) is recommended for detection of a neuraminidase sensitive oligosaccharide side chain of a glycoconjugate present in immature melanosomes in junctional and blue nevus cells 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 1:500-1:5000) and immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500); non cross-reactive with non-melanocytic cells.

Positive Controls: SK-MEL-28 cell lysate: sc-2236 or A-431 whole cell lysate: sc-2201.

**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**

**SELECT PRODUCT CITATIONS**


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