Cytokeratin 7 (RCK105): sc-23876

**BACKGROUND**

Cytokeratins comprise a diverse group of intermediate filament proteins (IFPs) that are expressed as pairs in both keratinized and non-keratinized epithelial tissue, where they constitute up to 85% of mature keratinocytes in the vertebrate epidermis. Cytokeratins play a critical role in differentiation and tissue specialization and function to maintain the overall structural integrity of epithelial cells. The α-helical coiled-coil dimers associate laterally end-to-end to form ten nm diameter filaments. Cytokeratins are useful markers of tissue differentiation and, in addition, they aid in the characterization of malignant tumors. Cytokeratin 7 (also known as sarcolectin) agglutinates normal and epithelial cells. The bracteate epidermis. Cytokeratins play a critical role in differentiation and, in addition, they aid in the characterization of malignant tissue, where they constitute up to 85% of mature keratinocytes in the vertebrate epidermis.

**CHROMOSOMAL LOCATION**

Genetic locus: KRT7 (human) mapping to 12q13.13; Krt7 (mouse) mapping to 15 F2.

**SOURCE**

Cytokeratin 7 (RCK105) is a mouse monoclonal antibody raised against T24 cells 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.

Cytokeratin 7 (RCK105) is available conjugated to agarose (sc-23876 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-23876 HRP), 200 µg/ml, for WB, (HClP) and ELISA; to either phycocerythrin (sc-23876 PE), fluorescein (sc-23876 FITC), Alexa Fluor® 488 (sc-23876 AF488), Alexa Fluor® 546 (sc-23876 AF546), Alexa Fluor® 594 (sc-23876 AF594) or Alexa Fluor® 647 (sc-23876 AF647), 200 µg/ml, for WB (RGB), IF, IHQP and FCM; and to either Alexa Fluor® 680 (sc-23876 AF680) or Alexa Fluor® 790 (sc-23876 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**APPLICATIONS**

Cytokeratin 7 (RCK105) is recommended for detection of Cytokeratin 7 of mouse, rat, human, hamster, canine and porcine origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1,000), 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 flow cytometry (1 µg per 1 x 10⁶ cells).

Suitable for use as control antibody for Cytokeratin 7 siRNA (h): sc-35154, Cytokeratin 7 siRNA (m): sc-35155, Cytokeratin 7 shRNA Plasmid (h): sc-35154-SH, Cytokeratin 7 shRNA Plasmid (m): sc-35155-SH, Cytokeratin 7 shRNA (h) Lentiviral Particles: sc-35154-V and Cytokeratin 7 shRNA (m) Lentiviral Particles: sc-35155-V.

Molecular Weight of Cytokeratin 7: 54 kDa.

**STORAGE**

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

**DATA**

Cytokeratin 7 (RCK105): sc-23876. Western blot analysis of Cytokeratin 7 expression in Hep G2 (A), RIN-m5F (B) and MDCK (C) whole cell lysates.

Cytokeratin 7 (RCK105): sc-23876. Immunoperoxidase staining of formalin fixed, paraffin-embedded human salivary gland tissue showing cytoplasmic and membrane staining of glandular cells (A). Immunofluorescence staining of methanol-fixed Hela cells showing cytokeratin localization (B).

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

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

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