## SANTA CRUZ BIOTECHNOLOGY, INC.

# Cytokeratin 5/14 (LH8): sc-53259



## BACKGROUND

Cytokeratins are a subfamily of intermediate filament keratins that are characterized by a remarkable biochemical diversity, which is represented in human epithelial tissues by at least 20 different polypeptides. Cytokeratins range in isoelectric range between 4.9 and 7.8. Cytokeratin 1 has the highest molecular weight, while Cytokeratin 19 has the lowest molecular weight. The Cyto-keratins are divided into the type I and type II subgroups. Type II family members comprise the basic to neutral members, Cytokeratins 1-8, while the type I group comprises the acidic members, Cytokeratins 9-20. Various epithelia in the human body usually express cytokeratins which are characteristic of the type of epithelium and related to the degree of maturation or differentiation within said epithelium. Cytokeratin subtype expression patterns are used to an increasing extent in the distinction of different types of epithelial malignancies. Cytokeratin 4 is expressed in differentiated layers of the mucosal and esophageal epithelia along with Cytokeratin 13.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: KRT5 (human) mapping to 12q13.13, KRT14 (human) mapping to 17q21.2.

## SOURCE

Cytokeratin 5/14 (LH8) is a mouse monoclonal antibody raised against foreskin keratinocytes of human origin.

#### PRODUCT

Each vial contains 200  $\mu g$  lgM kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

#### **APPLICATIONS**

Cytokeratin 5/14 (LH8) is recommended for detection of Cytokeratin 5/14 of human origin by immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

Molecular Weight of Cytokeratin 5: 58 kDa.

Molecular Weight of Cytokeratin 14: 50 kDa.

## **RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended: 1) Immunofluorescence: use m-IgG $\kappa$  BP-FITC: sc-516140 or m-IgG $\kappa$  BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz<sup>®</sup> Mounting Medium: sc-24941 or UltraCruz<sup>®</sup> Hard-set Mounting Medium: sc-359850.

#### **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 Cytokeratin 14 (LL001): sc-53253 for

Cytokeratin 14 antibody conjugates, including AC, HRP, FITC, PE, and Alexa Fluor<sup>®</sup> 488, 546, 594, 647, 680 and 790.