

Cytokeratin 8 (h): 293 Lysate: sc-110493

BACKGROUND

Cytokeratins comprise a diverse group of intermediate filament proteins (IFPs) that are expressed as pairs in both keratinized and non-keratinized epithelial tissue. Cytokeratins play a critical role in differentiation and tissue specialization and function to maintain the overall structural integrity of epithelial cells. Cytokeratins have been found to be useful markers of tissue differentiation, which is directly applicable to the characterization of malignant tumors. Cytokeratin 8 expression is seen in epithelium and epithelium-derived tumors. The Cytokeratin 8 and 18 pair are normally expressed in simple epithelia, but not in stratified epithelial cells. Research indicates that squamous cell carcinomas derived from stratified epithelia show abnormal expression of Cytokeratin 8 and 18, although it is not known whether these proteins contribute to the malignant phenotype of the cells. Expression of Cytokeratin 8 and 18 in oral squamous cell carcinomas is an independent prognostic marker that indicates a poor prognosis. Cytokeratin 8 expression correlates with malignancy in leukoplakia and carcinomas of the head and neck; it is expressed in all non-small-cell lung cancers. Cytokeratin 8 has been shown to possess extracellular epitopes on tumor cells, which may represent valuable targets for therapy.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: KRT8 (human) mapping to 12q13.13.

PRODUCT

Cytokeratin 8 (h): 293 Lysate represents a lysate of human Cytokeratin 8 transfected 293 cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

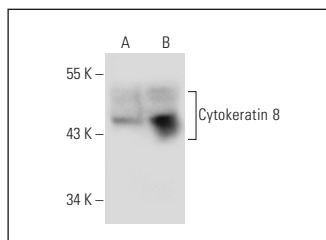
APPLICATIONS

Cytokeratin 8 (h): 293 Lysate is suitable as a Western Blotting positive control for human reactive Cytokeratin 8 antibodies. Recommended use: 10-20 µl per lane.

Control 293 Lysate: sc-110760 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

Cytokeratin 8 (M20): sc-52324 is recommended as a positive control antibody for Western Blot analysis of enhanced human Cytokeratin 8 expression in Cytokeratin 8 transfected 293 cells (starting dilution 1:100, dilution range 1:100-1:1,000).

DATA



Cytokeratin 8 (M20): sc-52324. Western blot analysis of Cytokeratin 8 expression in non-transfected: sc-117752 (A) and human Cytokeratin 8 transfected: sc-110493 (B) 293T whole cell lysates.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. 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.