

Cytokeratin 16 (h): 293T Lysate: sc-113846

BACKGROUND

Cytokeratins comprise a diverse group of intermediate filament proteins that are expressed as pairs in both keratinized and non-keratinized epithelial tissue. The cytokeratin proteins play a critical role in differentiation, as well as tissue specialization and function, to maintain the overall structural integrity of epi-thelial cells. Cytokeratins are also useful markers in identifying the origin of metastatic tumors. Cytokeratin 16 is expressed in benign stratified squamous epithelium and squamous cell carcinoma of the head and neck, as well as luminal cells of mammary glands and sweat ducts. It is absent in noninvasive breast carcinomas and normal breast tissue. Mutations in the Cytokeratin 16 gene cause various diseases, including pachyonychia congenita type 1 (PC1), nonepidermolytic palmoplantar keratoderma (NEPPK) and unilateral palmoplantar verrucous nevus (UPVN).

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: KRT16 (human) mapping to 17q21.2.

PRODUCT

Cytokeratin 16 (h): 293T Lysate represents a lysate of human Cytokeratin 16 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

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.

PROTOCOLS

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

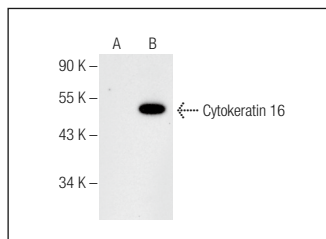
APPLICATIONS

Cytokeratin 16 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive Cytokeratin 16 antibodies. Recommended use: 10-20 µl per lane.

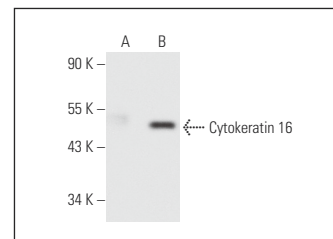
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

Cytokeratin 16 (E-10): sc-377224 is recommended as a positive control antibody for Western Blot analysis of enhanced human Cytokeratin 16 expression in Cytokeratin 16 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

DATA



Cytokeratin 16 (E-10): sc-377224. Western blot analysis of Cytokeratin 16 expression in non-transfected: sc-117752 (A) and human Cytokeratin 16 transfected: sc-113846 (B) 293T whole cell lysates.



Cytokeratin 16 (F-2): sc-271937. Western blot analysis of Cytokeratin 16 expression in non-transfected: sc-117752 (A) and human Cytokeratin 16 transfected: sc-113846 (B) 293T whole cell lysates.

RESEARCH USE

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