Cytokeratin 13 (Ks13.1): sc-101460

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. Cytokeratins 10 and 13 are present in the cytoskeletal region of a subset of squamous cell carcinomas. Cytokeratin 13 belongs to the intermediate filament family and is a heterotetramer of two type I acidic and two type II basic keratins. It is generally associated with Cytokeratin 4. Defects in the KRT13 gene are a cause of white sponge nevus. Cytokeratin 13 is a member of the keratin 4 gene family which is expressed in a subset of squamous cell carcinomas. Cytokeratin 13 is a type II keratin and is a heterotetramer of two type I acidic and two type II basic keratins. It is generally associated with Cytokeratin 4. Defects in the KRT13 gene are a cause of white sponge nevus.

REFERENCES


CHROMOSOMAL LOCATION

Genetic locus: KRT13 (human) mapping to 17q21.2; Krt13 (mouse) mapping to 11 D.

SOURCE

Cytokeratin 13 (Ks13.1) is a mouse monoclonal antibody raised against esophagus of human origin.

PRODUCT

Each vial contains 50 µg IgG1 in 0.5 ml of PBS with <0.1% sodium azide and 1.0% stabilizer protein.

APPLICATIONS

Cytokeratin 13 (Ks13.1) is recommended for detection of Cytokeratin 13 of mouse, rat and human origin by Western Blotting (starting dilution to be determined by researcher, dilution range 1:10-1:200), immunoprecipitation (10-20 µl per 100-500 µg of total protein (1 ml of cell lysate)), immunofluorescence (starting dilution to be determined by researcher, dilution range 1:10-1:200) and immunohistochemistry (including paraffin-embedded sections) (starting dilution to be determined by researcher, dilution range 1:10-1:200).

Cytokeratin 13 (Ks13.1) is also recommended for detection of Cytokeratin 13 in additional species, including bovine.


Molecular Weight of Cytokeratin 13: 52 kDa.

Positive Controls: A-431 whole cell lysate: sc-2201.

DATA

Molecular weight of Cytokeratin 13 is 52 kDa.

SELECT PRODUCT CITATIONS


RESEARCH USE

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

CONJUGATES

See pan-Cytokeratin (C11): sc-8018 for pan-Cytokeratin antibody conjugates, including AC, HRP, FITC, PE, and Alexa Fluor® 488, 546, 594, 647, 680 and 790.