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. For example, Cytokeratins 10 and 13 are expressed highly in a subset of squamous cell carcinomas while Cytokeratin 18 is expressed in a majority of adenocarcinomas and basal cell carcinomas.

REFERENCES


SOURCE

pan-Cytokeratin (PCK-26) is a mouse monoclonal antibody raised against purified full length native pan-Cytokeratin of human epidermal origin.

PRODUCT

Each vial contains 100 µl ascites containing IgG1 with < 0.1% sodium azide.

APPLICATIONS

pan-Cytokeratin (PCK-26) is recommended for detection of 58 kDa Cytokeratin 5, 56 kDa Cytokeratin 6 and 52 kDa Cytokeratin 8 of mouse and rat origin by Western Blotting (starting dilution to be determined by researcher, dilution range 1:100-1:2000), immunofluorescence and immunohistochemistry (including paraffin-embedded sections) (starting dilution to be determined by researcher, dilution range 1:100-1:400) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); may cross-react with a wide variety of normal, reactive and neoplastic epithelial tissues and with simple, cornifying and non-cornifying squamous epithelia and pseudo-stratified epithelia and is non cross-reactive with non-epithelial normal human tissues.

Molecular Weight of pan-Cytokeratin: 45-59 kDa.

Positive Controls: MCF7 whole cell lysate: sc-2206, HeLa whole cell lysate: sc-2200 or A-431 whole cell lysate: sc-2201.

RECOMMENDED SECONDARY REAGENTS


STORAGE

For immediate and continuous use, store at 4° C for up to one month. For sporadic use, freeze in working aliquots in order to avoid repeated freeze/thaw cycles. If turbidity is evident upon prolonged storage, clarify solution by centrifugation.

RESEARCH USE

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

PROTOCOLS

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