

pan-Cytokeratin (H-240): sc-15367

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. 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

- Gatter, K.C., et al. 1985. Human lung tumours: a correlation of antigenic profile with histological type. *Histopathology* 9: 805-823.
- Pulford, K.A., et al. 1985. The characterization of two monoclonal anti-keratin antibodies and their use in the study of epithelial disorders. *Histopathology* 9: 825-840.

SOURCE

pan-Cytokeratin (H-240) is a rabbit polyclonal antibody raised against amino acids 181-420 of pan-Cytokeratin of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

pan-Cytokeratin (H-240) is recommended for detection of Cytokeratin family members of mouse, rat, human and *Xenopus laevis* origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

pan-Cytokeratin (H-240) is also recommended for detection of Cytokeratin family members in additional species, including equine, canine, bovine and porcine.

Molecular Weight of pan-Cytokeratin: 40-59 kDa.

Positive Controls: Cytokeratin 10 (h): 293T Lysate: sc-113858, HeLa whole cell lysate: sc-2200 or A-431 whole cell lysate: sc-2201.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

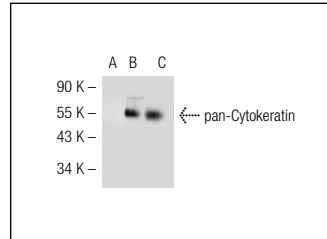
PROTOCOLS

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

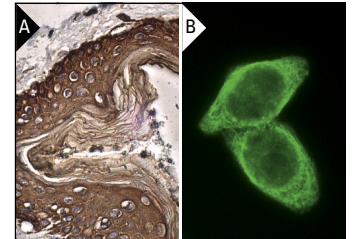
RESEARCH USE

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

DATA



pan-Cytokeratin (H-240): sc-15367. Western blot analysis of pan-Cytokeratin expression in non-transfected 293T: sc-117752 (A), human Cytokeratin 10 transfected 293T: sc-113858 (B) and HeLa (C) whole cell lysate.



pan-Cytokeratin (H-240): sc-15367. Immunoperoxidase staining of formalin fixed, paraffin-embedded human skin tissue showing cytoplasmic staining of epidermal cells (A). Immunofluorescence staining of methanol-fixed HeLa cells showing cytoskeletal localization (B).

SELECT PRODUCT CITATIONS

- Dubay, D.A., et al. 2004. Fascial fibroblast kinetic activity is increased during abdominal wall repair compared to dermal fibroblasts. *Wound Repair Regen.* 12: 539-545.
- Cheng, L., et al. 2009. HCl-activated neural and epithelial vanilloid receptors (TRPV1) in cat esophageal mucosa. *Am. J. Physiol. Gastrointest. Liver Physiol.* 297: G135-G143.
- Bogdanova, N., et al. 2010. Blood chimerism in a girl with Down syndrome and possible freemartin effect leading to aplasia of the Müllerian derivatives. *Hum. Reprod.* 25: 1339-1343.
- Laguë, M.N., et al. 2010. Decidual PTEN expression is required for trophoblast invasion in the mouse. *Am. J. Physiol. Endocrinol. Metab.* 299: E936-E946.
- Sharma, A.K., et al. 2011. A non-human primate model for urinary bladder regeneration utilizing autologous sources of bone marrow derived mesenchymal stem cells. *Stem Cells* 29: 241-250.
- Nait Lechguer, A., et al. 2011. Cell differentiation and matrix organization in engineered teeth. *J. Dent. Res.* 90: 583-589.
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Try **pan-Cytokeratin (C11): sc-8018** or **pan-Cytokeratin (D-12): sc-17843**, our highly recommended monoclonal alternatives to pan-Cytokeratin (H-240). Also, for AC, HRP, FITC, PE, Alexa Fluor® 488 and Alexa Fluor® 647 conjugates, see **pan-Cytokeratin (C11): sc-8018**.