Cytokeratin 14 (LL002)

Format	Catalog No.	Pack size	Dilution
Concentrated	G2042 A, B, C	0.1, 0.5, 1.0 mL	1:100
Prediluted	G2042 AA, BB	6.0, 3.0 mL	Ready to use

SPECIES: Mouse

IMMUNOGEN: A synthetic peptide of 15 amino acid from the C-terminus of human keratin 14.

CLONE: LL002

ISOTYPE: IgG3

FORMAT: This antibody has been pre-titered and quality controlled to work on formalin-fixed paraffin-embedded as well as acetone fixed cryostat tissue sections. No further titration is required.

INTENDED USE: For Research Use Only (RUO).

BACKGROUND: Alongside keratin-5 (type II or B or basic), cytokeratin-14 (CK14) is a member of the type-I (or A or acidic) subfamily of low-molecular-weight keratins. Basal cells of squamous epithelia, some glandular epithelia, myoepithelium, and mesothelial cells all contain CK14. Squamous cell carcinomas can be distinguished from poorly differentiated epithelial tumours with the help of anti-CK14. One of the particular basal markers used to differentiate between basal and non-basal subtypes of breast carcinomas is anti-CK14. By positively staining the basal cells around the in-situ tumour, anti-CK14 is also an effective marker for differentiating benign prostate from prostate cancer and for differentiating intraductal from invasive salivary duct carcinoma. Additionally, this antibody has been helpful in diagnosing breast metaplastic carcinomas and distinguishing kidney oncocytic tumours from their renal counterparts.

SPECIES REACTIVITY : Human

POSITIVE CONTROL : HeLa

CELLULAR LOCALIZATION : Cytoplasm, Nucleus

MICROBIOLOGICAL STATE : Non-sterile product; store according to recommended guidelines.

RECOMMEDNED USAGE:

- **Immunohistochemistry (IHC):** 1–2 µg/ml
  - Requires Tris-EDTA (pH 9.0) antigen retrieval at 95°C for 45 min, followed by cooling for 20 min at RT
- **Immunofluorescence (IF):** 1–3 µg/ml
- **Storage Conditions:** 1–3 µg/ml
  - With azide: 2–8°C
  - Without azide: –20 to –80°C
- **Stability:** 24 months

LIMITATIONS AND USES:

1. Contains 0.05% sodium azide – handle with care
2. Avoid skin and mucosal contact

4448 Ammendale Rd Beltsville, MD 20705, USA
info@genebiosolution.com
www.genebiosolution.com
+1 (408) 580-1396

STABILITY AND STORAGE –

Avoid freezing. Keep between 2 and 8°C. After use, immediately return to 2–8°C. Never use after the label's stated expiration date. Before using the antibody, visually confirm that it hasn't been contaminated. If the reagent precipitates or gets hazy, do not use it.

RESTRICTIONS–

Histological and immunological detection techniques are both used in the intricate process of immunohistochemistry. Results from tissue handling and processing before immunostaining can vary. Results may differ depending on the intrinsic characteristics of the tissue samples or on differences in fixation and embedding. Depending on the detection method employed, endogenous biotin and endogenous peroxidase or pseudoperoxidase activity in erythrocytes may result in non-specific staining. The methods and suggestions in this data sheet were verified with Genebio IHC reagents and might not work with other detection systems.

TECHNICAL SUPPORT

For technical assistance, please contact Genebio Solution's Technical Support at www.genebiosolution.com