

Keratin 14 Ab-1 (Clone LL002)

Mouse Monoclonal Antibody

Cat. #MS-115-P0, -P1, or -P (0.1ml, 0.5ml, or 1.0ml at 200µg/ml) (Purified Ab with BSA and Azide)**Cat. #MS-115-P1ABX or -PABX (0.1ml or 0.2ml at 1.0mg/ml)** (Purified Ab without BSA and Azide)**Cat. #MS-115-B0, -B1, or -B (0.1ml, 0.5ml, or 1.0ml at 200µg/ml)** (Biotin-Labeled Ab with BSA and Azide)**Cat. #MS-115-R7 (7.0ml)** (Ready-to-Use for Immunohistochemistry)**Cat. #MS-115-PCS (5 Slides)** (Positive Control for Histology)**Cat. #MS-115-PCL (0.1ml)** (Positive Control for Western Blot)**Please note this data sheet has been changed effective December 6, 2011**

Description: keratin 14 belongs to the type A (acidic) subfamily of low molecular weight keratins and exists in combination with keratin 5. Keratin 14 has been studied as a prognostic marker in breast cancer.

Comments: Ab-1 distinguishes stratified epithelial cells from simple epithelial cells and has been reported useful in the identification of squamous cell carcinomas.

Mol. Wt. of Antigen: 50kDa**Epitope:** C-terminal**Species Reactivity:** Human and Rat. Others-not known.**Clone Designation:** LL002**Ig Isotype:** IgG₃**Immunogen:** A synthetic peptide of 15 amino acid residues from the C-terminus of human keratin 14.**Applications and Suggested Dilutions:**

- Western Blotting (Ab 1-2µg/ml for 2hrs at RT)
- Immunohistology (Formalin/paraffin) (Ab 1-2µg/ml for 30 min at RT)
- * [Staining of formalin-fixed tissues REQUIRES boiling tissue sections in 10mM citrate buffer, pH 6.0, (Lab Vision Cat. #AP-9003), for 10-20 min followed by cooling at RT for 20 min.]

The optimal dilution for a specific application should be determined by the investigator.

Positive Control: A431 cells. Skin or Squamous cell carcinoma**Cellular Localization:** Cytoplasmic**Storage and Stability:**

Ab with sodium azide is stable for 24 months when stored at 2-8°C. Antibody WITHOUT sodium azide is stable for 36 months when stored at below 0°C.

Supplied As:

200µg/ml antibody purified from the ascites fluid by Protein G chromatography. Prepared in 10mM PBS, pH 7.4, with 0.2% BSA and 0.09% sodium azide. Also available without BSA and azide at 1mg/ml. Or Prediluted antibody which is ready-to-use for staining of formalin-fixed, paraffin-embedded tissues.

Key References:

1. Perkins W; et al. J Cutaneous Pathol, 1992, 19(6):476-82.
2. Kasper M. Histochemistry, 1991, 95(6):613-20.
3. Leigh I M, et al. (1988) Dermatology, 91:415.
4. Purkis P et al. (1990) Cell Sci, 97:39-50.
5. Lane EB; Alexander CM. (1990) Seminars in Cancer Biology, 1:165-79.

Limitations and Warranty:

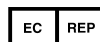
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Material Safety Data:

This product is not licensed or approved for administration to humans or to animals other than the experimental animals. Standard Laboratory Practices should be followed when handling this material. The chemical, physical, and toxicological properties of this material have not been thoroughly investigated. Appropriate measures should be taken to avoid skin and eye contact, inhalation, and ingestion. The material contains 0.09% sodium azide as a preservative. Although the quantity of azide is very small, appropriate care should be taken when handling this material as indicated above. The National Institute of Occupational Safety and Health has issued a bulletin citing the potential explosion hazard due to the reaction of sodium azide with copper, lead, brass, or solder in the plumbing systems. Sodium azide forms hydrazoic acid in acidic conditions and should be discarded in a large volume of running water to avoid deposits forming in metal drainage pipes.

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