Keratin 5 / 6 Ab-2 (Clone D5/16 B4)
Mouse Monoclonal Antibody
Cat. #MS-1814-S0, -S1, or -S (0.1ml, 0.5ml, or 1.0ml Supernatant)
Cat. #MS-1814-R7 (7.0ml) (Ready-to-Use for Immunohistochemistry)
Cat. #MS-1814-RQ (12.0ml) (Ready-to-Use for Immunohistochemistry)
Cat. #MS-1814-PCS (5 Slides) (Positive Control for Histology)

Please note this data sheet has been changed effective December 12, 2011

**Description:** Twenty human keratins are divided into acidic (pI <5.7) and basic (pI >6.0) subfamilies. Members of the acidic and basic subfamilies are found together in pairs. The composition of keratin pairs varies with the epithelial cell type, stage of differentiation, cellular growth environment, and disease state. Many studies have shown the usefulness of keratins as markers in cancer research and tumor identification.

**Mol. Wt. of Antigen:** 58kDa (keratin 5), 56kDa (keratin 6)

**Epitope:** Not determined

**Species Reactivity:** Human. Others-not known.

**Clone Designation:** D5/16 B4

**Ig Isotype / Light Chain:** IgG1 / \kappa

**Immunogen:** Isolated cytokeratin 5

**Applications and Suggested Dilutions:**
- Immunohistology (Formalin/paraffin)
  - Use Ab 1:10 for 30 minutes at RT using the LP, UltraVision or UltraVision ONE Detection Systems
  - [Staining of formalin-fixed tissues requires boiling tissue sections in Tris-EDTA buffer, pH 9.0, (Cat# TA-125-PMX4), for 10-20 min followed by cooling at RT for 20 min.]
- Use Ab 1:10 for 20 min at RT using the UltraVision Quanto Detection System
  - [Staining of formalin-fixed tissue sections requires treating the tissue sections in boiling 1mM EDTA, pH 8.0 (Cat.# AP-9004-XXX or TA-XXX-PM2X), heating to 98°C for 20 min using the Thermo Scientific PTModule]

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

**Positive Control:** Mesothelioma, Squamous Cell Ca

**Cellular Localization:** Cytoplasmic

**Supplied As:**
- Tissue culture supernatant with 0.09% sodium azide, or
- Prediluted antibody which is ready-to-use for staining of formalin-fixed, paraffin-embedded tissues.

**Storage and Stability:**
- Store vial at 4°C. When stored at 2-8°C, this antibody is stable for 24 months.

**Suggested References:**

**Limitations and Warranty:**
Our products are intended FOR RESEARCH USE ONLY and are not approved for clinical diagnosis, drug use or therapeutic procedures. No products are to be construed as a recommendation for use in violation of any patents. We make no representations, warranties or assurances as to the accuracy or completeness of information provided on our data sheets and website. Our warranty is limited to the actual price paid for the product. Lab Vision is not liable for any property damage, personal injury, time or effort or economic loss caused by our products.

**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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Additional suggested References:
5. Ogden GR; Chisholm DM; Green M; Cowpe JG; Lane EB. Influence of temperature on long-term keratin immunoreactivity for oral exfoliative cytology. Analytical and Quantitative Cytology and Histology, 1995, 17(1):35-8.
21. Warburton MJ; Ferns SA; Hughes CM; Sear CH; Rudland PS. Generation of cell types with myoepithelial and mesenchymal phenotypes during the conversion of rat mammary tumor epithelial stem cells into elongated cells. Journal of the National Cancer Institute, 1987, 78(6):1191-201.
22. Warburton MJ; Ferns SA; Hughes CM; Rudland PS. Characterization of rat mammary cell cell types in primary culture: lectins and antisera to basement membrane and.
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