

**Epithelial Specific Antigen / Ep-CAM Ab-1 (Clone VU-1D9)**

Mouse Monoclonal Antibody

**Cat. #MS-144-P0, -P1, or -P (0.1ml, 0.5ml, or 1.0ml at 200µg/ml)** (Purified Ab with BSA and Azide)**Cat. #MS-144-P1ABX or -PABX (0.1ml or 0.2ml at 1.0mg/ml)** (Purified Ab without BSA and Azide)**Cat. #MS-144-B0, -B1, or -B (0.1ml, 0.5ml, or 1.0ml at 200µg/ml)** (Biotin-Labeled Ab with BSA and Azide)**Cat. #MS-144-R7 (7.0ml)** (Ready-to-Use for Immunohistochemistry)**Cat. #MS-144-PCS (5 Slides)** (Positive Control for Histology)**Please note this data sheet has been changed effective December 6, 2011**

**Description:** EGP40 is a 40kDa transmembrane epithelial glycoprotein, also identified as epithelial specific antigen (ESA), or epithelial cellular adhesion molecule (Ep-CAM). It is expressed on baso-lateral cell surface in most simple epithelia and a vast majority of carcinomas. It reportedly distinguishes adenocarcinomas from pleural mesotheliomas.

**Comments:** Also detected by other Ab's e.g. 323/A3 (Lab Vision' Cat. No. MS-181-P), AUA1 (Lab Vision Cat No. MS-675-P), ESA43 (Lab Vision' Cat. No. MS-1245-P) 17-1A, KS1/4, Ber-EP4, MOC-31, GA733, & HEA 125.

**Mol. Wt. of Antigen:** 40-43kDa**Epitope:** Not determined**Species Reactivity:** Human. Does not react with rat. Others-not known**Clone Designation:** VU-1D9**Ig Isotype / Light Chain:** IgG<sub>1</sub> / κ**Immunogen:** Small cell lung carcinoma cells<sup>1</sup>**Applications and Suggested Dilutions:**

- Immunohistology (Formalin/paraffin)  
(Ab 1-2µg/ml for 30 min at RT)
- \* (Staining of formalin/paraffin tissues REQUIRES digestion of tissue sections with pepsin at 1mg/ml Tris-HCl, pH 2.0 for 15 min at RT or 10 min at 37C) (Cat. #AP-9007)

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

**Positive Control:** Breast carcinoma**Cellular Localization:** Cell membrane**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 bioreactor concentrate 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. Litvinov SV, et. al. J Cell Biol, 1994, 125:437-46.
2. Tsubura A, et. al. J Cut Pathol, 1992, 19:73-9.

**Limitations and Warranty:**

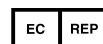
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**Material Safety Data:**

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.

**For Research Use Only**

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