

## Ep-Cam (ESA), clone VU-1D9 Monoclonal Antibody

**Catalog No.:** MON 7021

**Quantity:** 1 ml

### Specificity

Ep-Cam (also called ESA, EGP40, 17-1A antigen, KSA, GA7333-2) is a 40kD epithelial protein expressed on baso-lateral cell surfaces in very many epithelial tissues (but absent from mesothelial tissues). The 324AA have 3 potential glycosylation sites and is a transmembrane glycoprotein. The extracellular domain has a cysteine-rich repeat and a small domain with homology to nidogen. It is a homophilic cell-cell adhesion molecule, recently called Ep-CAM (Litvinov et al., 1994). It reacts with most epithelial cells and carcinomas.

### Immunoglobulin type

Mouse IgG<sub>1</sub>

### Use

It is the antibody of choice to differentiate between mesothelioma and carcinoma, a common diagnostic problem. This was best shown so far for the comparable BER-EP4 antibody (Gaffray et al., 1992). The antibody works well on paraffin sections, even without applying microwaving.

Frozen Sections	Paraffin Sections	Flow Cytometry	Immuno Precipitation	Western Blotting	Blocking
+	+	+	+	+	+

### Presentation

1 ml vials (>200 tests) containing antibody in serumfree culture supernatant, with 0.7% BSA and 0.1% Sodium azide.

### Literature

- Tsubura et al., 1992, J.Cutan.Pathol. 19 73.
- Herlyn et al., 1986, Hybridoma suppl. 5, S3-S8.
- Szala et al., 1990, Proc.Nat.Acad.Sci. USA 87, 3542-3546.
- Litvinov et al., 1994, J.Cell.Biol. 125, 437-446.
- Gaffey et al., 1992, Amer J.Surg.Path. 16, 593-599.
- Tandon et al., 1990, Cancer Res. 50, 3317-3321.
- Simon et al., 1990, Proc.Nat.Acad.Sci.USA 87, 2755-2759.
- Perez and Walker, 1989, J.Immunol. 142, 3662-3667.
- Latza et al., 1990, J.Clin.Path. 43, 213-219.
- Sheibani et al., 1991, Amer.J.Surg.Path. 15, 779-798.

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**Cell Sciences, Inc.**  
480 Neponset Street  
Bldg 12A  
Canton, MA 02021

Toll Free: 888-769-1246  
Phone: 781-828-0610  
Fax: 781-828-0542

E-mail: [info@cellsciences.com](mailto:info@cellsciences.com)  
Web Site: [www.cellsciences.com](http://www.cellsciences.com)