

## 36-2718: Anti-Ep-CAM / CD326 (Extracellular Domain) (Epithelial Marker) Monoclonal Antibody (Clone: EGP40/1372)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	EGP40/1372
<b>Application :</b>	ELISA, FACS, IF, WB, IHC
<b>Reactivity :</b>	Human
<b>Gene :</b>	TACSTD1
<b>Gene ID :</b>	4072
<b>Uniprot ID :</b>	P16422
<b>Alternative Name :</b>	Adenocarcinoma-associated Antigen; Cell Surface Glycoprotein Trop-1; EGP2; EGP314; EGP40; Epithelial Cell Adhesion Molecule; Epithelial Glycoprotein 314; ESA; KSA; TACD1; TROP1; Tumor-associated Calcium Signal Transducer 1 (TACSTD1); ECS-1; Epidermal Surface Antigen 1; ESA1; FLOT2; Flotillin-2; Membrane Component, Chromosome 17, Surface Marker-1 (M17S1); REG-1; Reggie-1; Reggie-2
<b>Isotype :</b>	Mouse IgG1, kappa
<b>Immunogen Information :</b>	Recombinant human EpCAM fragment from extracellular domain (around aa 77-202) (exact sequence is proprietary)

### Description

EGP40 is a 40-43kDa 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. This antibody has been used to distinguish adenocarcinoma from pleural mesothelioma and hepatocellular carcinoma. This antibody is also useful in distinguishing serous carcinomas of the ovary from mesothelioma.

### Product Info

<b>Amount :</b>	20 µg / 100 µg
<b>Content :</b>	200 µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
<b>Storage condition :</b>	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous.

### Application Note

ELISA (For coating, order antibody without BSA); Flow Cytometry (0.5-1µg/million cells); Immunofluorescence (1-2µg/ml); Western Blot (1-2µg/ml); Immunohistochemistry (Formalin-fixed) (1-2µg/ml for 30 minutes at RT), (Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95 °C followed by cooling at RT for 20 minutes),

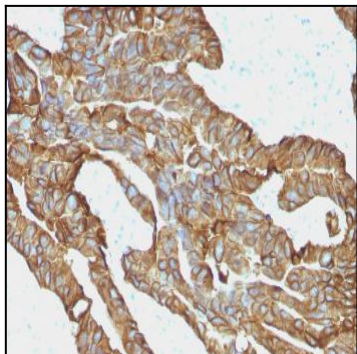


Fig. 1: Formalin-fixed, paraffin-embedded human Colorectal Carcinoma stained with EpCAM-Monospecific Mouse Monoclonal Antibody (EGP40/1372).

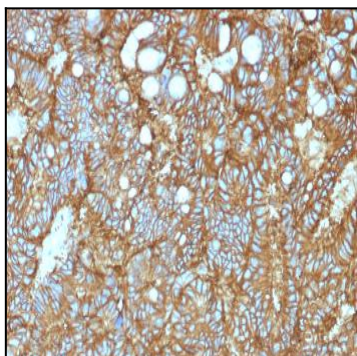


Fig. 2: Formalin-fixed, paraffin-embedded human Hepatocellular Carcinoma stained with EpCAM-Monospecific Mouse Monoclonal Antibody (EGP40/1372).

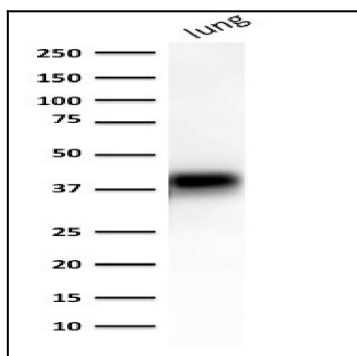


Fig. 3: Western Blot of human lung lysate using EpCAM-Monospecific Mouse Monoclonal Antibody (EGP40/1372).

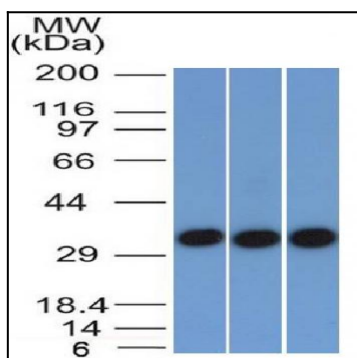


Fig. 4: Western Blot of 293, A431 and HCT116 cell lysate using EpCAM-Monospecific Mouse Monoclonal Antibody (EGP40/1372).

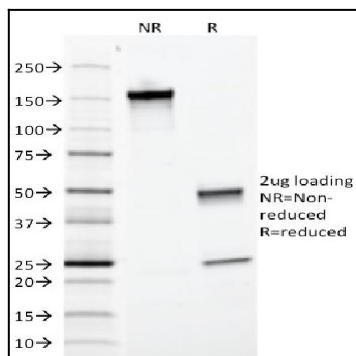


Fig. 5: SDS-PAGE Analysis Purified EpCAM-Monospecific Mouse Monoclonal Antibody (EGP40/1372). Confirmation of Integrity and Purity of Antibody.

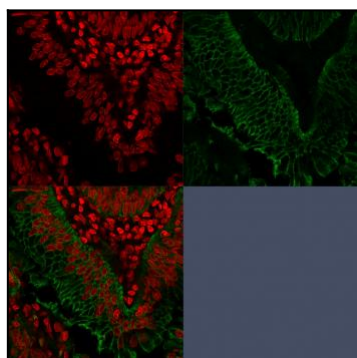


Fig. 6: Confocal Immunofluorescence of human Colo-rectal Carcinoma. EpCAM-Monospecific Mouse Monoclonal Antibody (EGP40/1372) labeled with CF488 (green); Nuclei are labeled with Reddot (red).

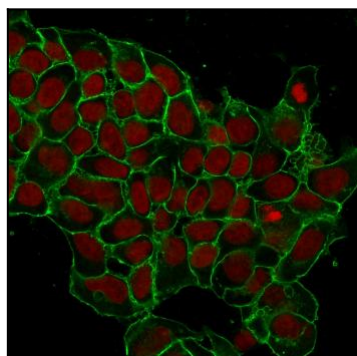


Fig. 7: Immunofluorescent staining of MCF-7 cells. EpCAM-Monospecific Mouse Monoclonal Antibody (EGP40/1372) labeled with CF488 (green). Nuclei are stained with Reddot (red)