

Monoclonal Antibody to CD326 / EPCAM / TACSTD1 - FITC

Alternate names:	Adenocarcinoma-associated antigen, EGP314, Ep-CAM, Epithelial cell adhesion molecule, Epithelial glycoprotein 314, GA733-2, KS 1/4 antigen, KSA, M1S2, M4S1, MIC18, Major gastrointestinal tumor-associated protein GA733-2, TROP1, Trop-1, Tumor-associated calcium signal transducer 1
Catalog No.:	AM10033FC-S
Quantity:	0.1 mg
Concentration:	0.2 mg/ml
Background:	Epithelial is a transmembrane glycoprotein (40 kDa) also known as ESA or epithelial cellular adhesion molecule (Ep-CAM). This protein is expressed on basolateral cell surface in most simple epithelia and vast majority of cancers. According to the "Cancer Stem Cells" (CSC) theory, tumors are not viewed as simple monoclonal expression of transformed cells, but rather as complex tissue where abnormal growth is driven by a minority pathological CSC pool that on one hand has acquired tumor related features such as uncontrolled growth and ability to form metasis and on the other hand maintains its inherent capacity to self renew and differentiate into a phenotypic ally heterogeneous, although aberrant progeny.
Uniprot ID:	P16422
NCBI:	NP_002345.2
GeneID:	4072
Host / Isotype:	Mouse / IgG1
Clone:	ESA214
Immunogen:	Small cell lung carcinoma. Remarks: Molecular weight of antigen: 40 kDa.
Format:	State: Liquid purified Ig fraction. Purification: Protein A Chromatography. Buffer System: PBS, pH 7.4 containing 1% BSA as stabilizer and 0.05% Sodium Azide as preservative. Label: FITC
Applications:	Suitable for Immunohistochemistry and Immunocytochemistry (Frozen or Formalin-Fixed Paraffin-Embedded (FFPE) tissue sections and cell smears) For IHC dilute concentrated antibody at 1/50-1/100, use streptavidin~biotin system or polymer system, incubate 30 minutes at room temperature. Antigen retriever like pepsin enhances the staining of FFPE tissue. Immunofluorescence: 10-20 µg/ml (1/10-1/20), incubate for 2 hours in the dark at RT or it can also be incubated overnight at 4°C.

For research and in vitro use only. Not for diagnostic or therapeutic work.

Material Safety Datasheets are available at www.acris-antibodies.com or on request.

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Flow Cytometry: 0.2-1.0 µg/0.1 ml (1/200-1/1,000).

Recommended Positive Control: Breast carcinoma.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:

This antibody has been used recently to characterize the EpCAM high CD44+ versus EpCAM low/Cd44- indifferent cancer cells.

Cellular Localization: Cell membrane.

Species: Human.

Other species not tested.

Storage:

Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.

This product is photosensitive and should be protected from light.

Shelf life: One year from despatch.

General Readings:

1. Litvinov, SV et. al. J cell Biol. 125: 437-446, 1994.
2. Tsubura, et. al. J Cutan Pathol. 19: 73-79, 1992.
3. Reya, T et.al. Nature 414: 105-111, 2001.
4. Dalerba, P et al. Ann. Rev. Med. 58: 267-287, 2007
5. Jordan, CT et. al. N Engl. J Med. 355: 1253-1261 2006.
6. Went, P et.al. Brit. J Cancer 94: 128-135, 2006.

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