

Product datasheet for **AM10033FC-S**

EPCAM Mouse Monoclonal Antibody [Clone ID: ESA214]

Product data:

Product Type:	Primary Antibodies
Clone Name:	ESA214
Applications:	FC, IF, IHC
Recommended Dilution:	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. Flow Cytometry: 0.2-1.0 µg/0.1 ml (1/200-1/1,000). Recommended Positive Control: Breast carcinoma.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Small cell lung carcinoma.
Specificity:	This antibody has been used recently to characterize the EpCAM high CD44+ versus EpCAM low/Cd44- indifferent cancer cells. Cellular Localization: Cell membrane.
Formulation:	PBS, pH 7.4 containing 1% BSA as stabilizer and 0.05% Sodium Azide as preservative Label: FITC State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Protein A Chromatography
Conjugation:	FITC
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.



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Stability:	Shelf life: One year from despatch.
Gene Name:	epithelial cell adhesion molecule
Database Link:	Entrez Gene 4072 Human P16422
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.
Synonyms:	Ep-CAM, Epithelial cell adhesion molecule, GA733-2, EGP314, KSA, TROP1, Trop-1, M1S2, M4S1, MIC18