

Product Datasheet

Anti-Epithelial Cell Adhesion Molecule (Ep-CAM) Antibody FL490 Conjugate

Overview

Catalog #	MM-1014-FL490
Conjugate	FL490 Ex: 491 nm, Em: 515 nm
Isotype	IgG ₁
Clone Number	ESA 214
Size	200 μ L
Concentration	0.5 mg/mL
Host Species	Mouse Monoclonal
Format	Purified by Protein A Chromatography
Buffer	PBS with 0.09% azide
Applications	IHC, ICC
Species Reactivity	Human
Immunogen	Small cell lung carcinoma
Molecular Weight	40 kDa
Cite this Antibody	Antibodies Inc Cat# MM-1014-FL490, RRID: AB_3095369

Details

Target Description	Epithelial specific antigen 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. This antibody has been used recently to characterize the EpCAM high CD44+ versus EpCAM low/Cd44- indifferent cancer cells.
Specificity	No cross-reactivity reported
Purification Method	Produced by in vitro bioreactor culture of hybridoma line followed by Protein A affinity chromatography and conjugation of purified mAb. Purified mAbs are >90% specific antibody.
Quality Control Tests	Each new lot of this antibody is tested to confirm that it recognizes a single immunoreactive band of expected molecular weight when used in Western blot.
Storage	Aliquot and store at $\leq -20^{\circ}\text{C}$ for long term storage. For short term storage, store at 2-8 $^{\circ}\text{C}$. For maximum recovery of product, centrifuge the vial prior to removing the cap.

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