

ARG53969 anti-EpCAM antibody [ESA 214] (FITC)

Package: 500 µl

Store at: -20°C

Summary

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| Product Description | FITC-conjugated Mouse Monoclonal antibody [ESA 214] recognizes EpCAM |
| Tested Reactivity | Hu |
| Tested Application | ICC/IF, IHC-P |
| Host | Mouse |
| Clonality | Monoclonal |
| Clone | ESA 214 |
| Isotype | IgG1, kappa |
| Target Name | EpCAM |
| Species | Human |
| Immunogen | Small cell lung carcinoma |
| Conjugation | FITC |
| Alternate Names | MIC18; EGP; Tumor-associated calcium signal transducer 1; Epithelial glycoprotein 314; KSA; Ep-CAM; Epithelial cell surface antigen; Adenocarcinoma-associated antigen; HNPCC8; Cell surface glycoprotein Trop-1; EGP40; TACSTD1; KS1/4; hEGP314; Major gastrointestinal tumor-associated protein GA733-2; M4S1; MK-1; Epithelial glycoprotein; KS 1/4 antigen; ESA; DIAR5; EGP314; Epithelial cell adhesion molecule; EGP-2; TROP1; CD antigen CD326 |

Application Instructions

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| Application table | Application | Dilution |
| | ICC/IF | Assay-dependent |
| | IHC-P | Assay-dependent |
| Application Note | IHC, ICC (frozen or formalin-fixed paraffin-embedded (FFPE) tissue sections, cell smears). IHC: 1: 50-1: 100, use streptavidin~biotin system or polymer system, incubate 30 minutes at room temperature. IF, FITC~conjugated antibodies: 10-20 µg/ml (1: 10-1: 20), incubate in the dark for 2 hours at RT or overnight at 4°C. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. | |
| Positive Control | Breast carcinoma | |

Properties

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| Form | Liquid |
| Buffer | PBS (pH 7.4), 1% BSA and 0.05% Sodium azide |
| Preservative | 0.05% Sodium azide |

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| Stabilizer | 1% BSA |
| Concentration | 0.2 mg/ml |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Keep the antibody in the dark and keep protected from prolonged exposure to light. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |
| Note | For laboratory research only, not for drug, diagnostic or other use. |

Bioinformation

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| Database links | GeneID: 4072 Human Swiss-port # P16422 Human |
| Gene Symbol | EPCAM |
| Gene Full Name | epithelial cell adhesion molecule |
| Background | EpCAM is a carcinoma-associated antigen and is a member of a family that includes at least two type I membrane proteins. This antigen is expressed on most normal epithelial cells and gastrointestinal carcinomas and functions as a homotypic calcium-independent cell adhesion molecule. The antigen is being used as a target for immunotherapy treatment of human carcinomas. Mutations in this gene result in congenital tufting enteropathy. [provided by RefSeq, Dec 2008] |
| Function | EpCAM may act as a physical homophilic interaction molecule between intestinal epithelial cells (IECs) and intraepithelial lymphocytes (IELs) at the mucosal epithelium for providing immunological barrier as a first line of defense against mucosal infection. Plays a role in embryonic stem cells proliferation and differentiation. Up-regulates the expression of FABP5, MYC and cyclins A and E. [UniProt] |
| Research Area | Controls and Markers antibody; Epithelial Marker antibody; Circulating Tumor Cells BioMarker antibody |
| Calculated Mw | 35 kDa |
| PTM | Hyperglycosylated in carcinoma tissue as compared with autologous normal epithelia. Glycosylation at Asn-198 is crucial for protein stability. |
| Cellular Localization | Cell membrane |