ARG10517
anti-EpCAM antibody [AUA1]

Summary

Product Description
Mouse Monoclonal antibody [AUA1] recognizes EpCAM

Tested Reactivity
Hu

Tested Application
ELISA, FACS, ICC/IF, IHC-P

Specificity
Cross reacts with breast carcinomas, kidney tubules, tonsil crypt epithelium and cells in some serious effusions. This is a good antibody for characterisation of all epithelial cells.

Host
Mouse

Clonality
Monoclonal

Clone
AUA1

Isotype
IgG1

Target Name
EpCAM

Antigen Species
Human

Immunogen
LoVo cell line, a colon carcinoma cell line.

Conjugation
Un-conjugated

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

Application table

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<tr>
<th>Application</th>
<th>Dilution</th>
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<tbody>
<tr>
<td>ELISA</td>
<td>Assay-dependent</td>
</tr>
<tr>
<td>FACS</td>
<td>1µg for 10^6 cells. (methanol fixed cells)</td>
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<tr>
<td>ICC/IF</td>
<td>Assay-dependent</td>
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<tr>
<td>IHC-P</td>
<td>5 µg/ml</td>
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Application Note
IHC-P: Antigen Retrieval: Heat mediated in Citrate buffer (pH 6.0)

* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Calculated Mw
40 kDa

Properties

Form
Liquid

Purification
Purified by affinity chromatography.
Buffer: PBS and 0.02% Sodium azide
Preservative: 0.02% Sodium azide
Concentration: 1 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. 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

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: 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]

Highlight: Related products: EpCAM antibodies; EpCAM Duos / Panels; Anti-Mouse IgG secondary antibodies;

Research Area: Controls and Markers antibody

Images

ARG10517 anti-EpCAM antibody [AUA1] ICC/IF image

Immunofluorescence: SW1222 cells stained with ARG10517 anti-EpCAM antibody [AUA1].
ARG10517 anti-EpCAM antibody [AUA1] IHC-P image

Immunohistochemistry: Paraffin-embedded HT29 Xenograft tumor stained with ARG10517 anti-EpCAM antibody [AUA1].