## ARG10517
## anti-EpCAM antibody [AUA1]

Package: 50 μg
Store at: -20°C

## Summary

| | |
|---|---|
| Product Description | Mouse Monoclonal antibody [AUA1] recognizes EpCAM |
| Tested Reactivity | Hu |
| Tested Application | ELISA, FACS, ICC/IF, IHC-P, WB |
| 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 |
| 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

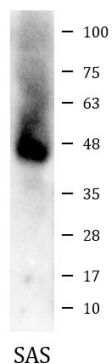| Application table | Application | Dilution |
|---|---|---|
| | ELISA | Assay-dependent. |
| | FACS | 1 μg/10^6 cells. (methanol fixed cells) |
| | ICC/IF | Assay-dependent. |
| | IHC-P | 5 μg/ml |
| | WB | 1:100 |
| Application Note | IHC-P: Antigen Retrieval: Heat mediated in Citrate buffer (pH 6.0) * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. | |

## Properties

| | |
|---|---|
| Form | Liquid |
| Purification | Purified by affinity chromatography. |

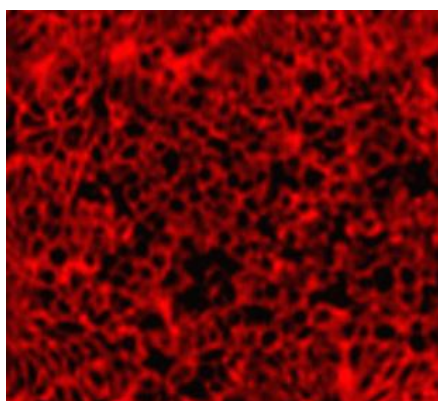| | |
|---|---|
| Buffer | PBS and 0.02% Sodium azide |
| Preservative | 0.02% Sodium azide |
| Concentration | 1 mg/ml |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers 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

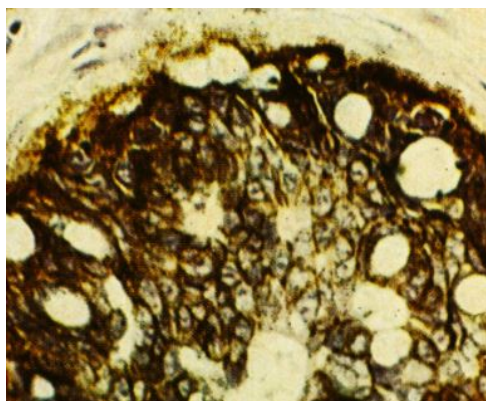| | |
|---|---|
| Database links | GeneID: 4072 Human |
| | Swiss-port # P16422 Human |
| Gene Symbol | EPCAM |
| Gene Full Name | epithelial cell adhesion molecule |
| Background | EpCAM is a carcinoma-associated antigen and is a member of a family that includes at least two type I membrane proteins. 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 | 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] |
| Highlight | Related Antibody Duos and Panels: <br> ARG30305 Epithelial Marker Antibody Duo (Muc-1, EpCAM) <br> ARG30311 Circulating Tumor Cells Biomarker Antibody Duo (EpCAM, HER2) <br> Related products: <br> EpCAM antibodies;  EpCAM ELISA Kits;  EpCAM Duos / Panels;  Anti-Mouse IgG secondary antibodies; |
| 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. |

# Images



SAS

### ARG10517 anti-EpCAM antibody [AUA1] WB image

Western blot: 30 μg of SAS cell lysate stained with ARG10517 anti-EpCAM antibody [AUA1] at 1:100 dilution.



### 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].