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Human EpCAM/TROP-1 antibody

Catalog Number: ATGA0515

PRODUCT INFORMATION

Catalog number
ATGA0515

Clone No.
AT36F10

Product type
Monoclonal Antibody

UnitProt No.
P16422

NCBI Accession No.
NP_002345

Alternative Names
Epithelial cell adhesion molecules, CD326, KS1/4, KSA, M4S1, MIC18, MK-1, TACSTD1, TROP1, DIAR5, EGP, GA733 2, HNPCC8

PRODUCT SPECIFICATION

Antibody Host
Mouse

Reacts With
Human

Concentration
1mg/ml (determined by BCA assay)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen
Recombinant human EpCAM/TROP-1 (24-265aa) purified from E. coli

Isotype
IgG2b kappa

Purification Note
By protein-A affinity chromatography

Application
ELISA, WB, ICC/IF

Usage
The antibody has been tested by ELISA, Western blot and ICC/IF analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

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Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

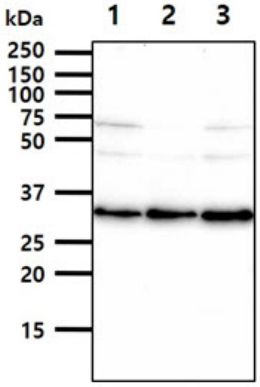
Epithelial cell adhesion molecule (EPCAM) is a transmembrane glycoprotein mediating Ca2+-independent homotypic cell-cell adhesion in epithelia. EPCAM is also involved in cell signaling, migration, proliferation, and differentiation. Additionally, EPCAM has oncogenic potential via its capacity to upregulate c-myc, e-fabp, and cyclins A & E. Since EPCAM is expressed exclusively in epithelia and epithelial-derived neoplasms, EPCAM can be used as diagnostic marker for various cancers. It appears to play a role in tumorigenesis and metastasis of carcinomas, so it can also act as a potential prognostic marker and as a potential target for immunotherapeutic strategies.

General References

Litvinov. Sergey., et al. (1994) The Journal of Cell Biology 125(2): 437-46.
Maetzel D., et al. (2009) Nat Cell Biol. 11(2): 162-71.
Osta WA., et al. (2004) Cancer Res. 64(16): 5818-24.
Munz M., et al. (2004) Oncogene 23(34): 5748-58.
Armstrong A., et al. (2003) Cancer Biol Ther, 2(4): 320-6.

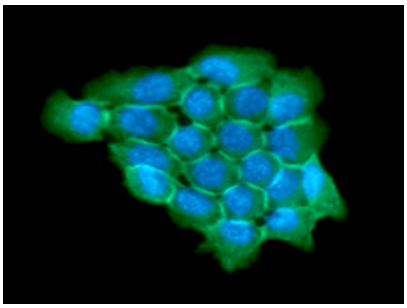
DATA

Western blot analysis (WB)



The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human EpCAM/TROP-1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.
Lane 1.: MCF7 cell lysate
Lane 2.: PC3 cell lysate
Lane 3.: HeLa cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of EpCAM/TROP-1 in A431 cells. The cell was stained with ATGA0515 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).