

ARG43755 anti-EpCAM antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes EpCAM
Tested Reactivity	Hu
Tested Application	FACS, IHC-P
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	EpCAM
Species	Human
Immunogen	Synthetic peptide corresponding to a.a. E147-N189 in extracellular domain of Human EpCAM.
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
	FACS	1 - 3 µg/10 ⁶ cells
	IHC-P	1:50 - 1:500
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	40 kDa	

Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.05% Sodium azide and 5% BSA.
Preservative	0.05% Sodium azide
Stabilizer	5% BSA
Concentration	0.5 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. 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.

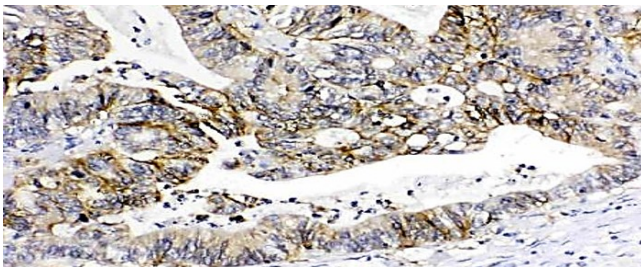
Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

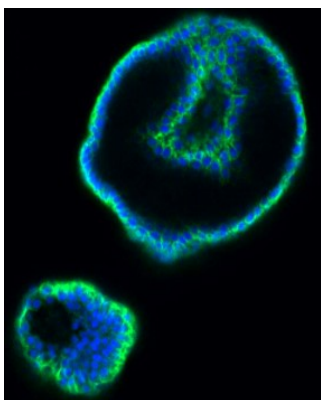
Gene Symbol	EPCAM
Gene Full Name	epithelial cell adhesion molecule
Background	EpCAM is a carcinoma-associated antigen and is a member of a family that includes at least two type I membrane proteins. This antigen is expressed on most normal epithelial cells and gastrointestinal carcinomas and functions 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. [UniProt]
Cellular Localization	Lateral cell membrane; Single-pass type I membrane protein. Cell junction, tight junction. Note=Colocalizes with CLDN7 at the lateral cell membrane and tight junction. [UniProt]

Images



ARG43755 anti-EpCAM antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human intestinal cancer tissue. Antigen Retrieval: Heat mediation was performed in EDTA buffer (pH 8.0). The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG43755 anti-EpCAM antibody at 1 µg/ml dilution, overnight at 4°C.

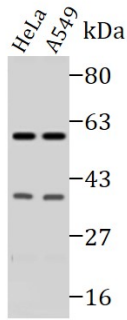


ARG43755 anti-EpCAM antibody ICC/IF image

Immunofluorescence: Human colon organoid cells were stained with ARG43755 anti-EpCAM antibody (green) at 1:200 and 4°C. DAPI (blue) was used as the nuclear counter stain. Antigen Retrieval: Heat mediated was performed using citrate buffer pH 6.0.

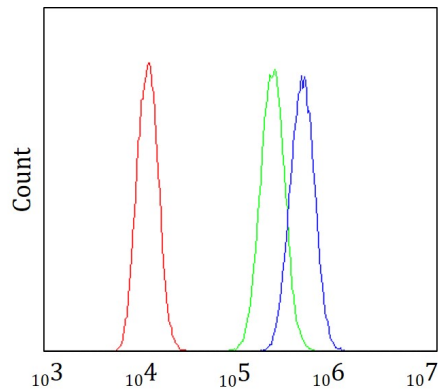
ARG43755 anti-EpCAM antibody WB image

Western blot: 10 µg of HeLa and A549 cell lysates stained with ARG43755 anti-EpCAM antibody at 1:1000 dilution



ARG43755 anti-EpCAM antibody FACS image

Flow Cytometry: A431 cells were blocked with 10% normal goat serum and stained with ARG43755 anti-EpCAM antibody (blue) at 1 µg/10⁶ cells for 30 min at 20°C, followed by incubation with DyLight®488 labelled secondary antibody. Isotype control antibody (green) was rabbit IgG (1 µg/10⁶ cells) used under the same conditions. Unlabelled sample (red) was also used as a control.



ARG43755 anti-EpCAM antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human prostatic cancer tissue. Antigen Retrieval: Heat mediation was performed in EDTA buffer (pH 8.0). The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG43755 anti-EpCAM antibody at 1 µg/ml dilution, overnight at 4°C.

