

# Product datasheet

info@arigobio.com

# ARG66983 anti-EpCAM antibody

Package: 100 μl Store at: -20°C

### Summary

Product Description Rabbit Polyclonal antibody recognizes EpCAM

Tested Reactivity Hu, Ms

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

Host Rabbit

Clonality Polyclonal

Isotype IgG

Target Name EpCAM

Species Human

Immunogen Synthetic peptide within the 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	1:50 - 1:200
	ICC/IF	1:200 - 1:400
	IHC-P	1:100 - 1:150
	WB	1:1000 - 1:2000
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 purified.	
Buffer	100 mM Tris Glycine (pH 7.0), 0.025% ProClin 300 and 20% Glycerol.	
Preservative	0.025% ProClin 300	
Stabilizer	20% Glycerol	

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

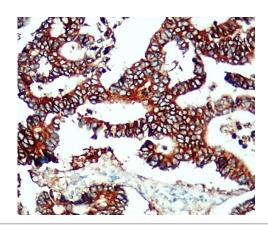
PTM Hyperglycosylated in carcinoma tissue as compared with autologous normal epithelia. Glycosylation at

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**



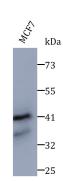
#### ARG66983 anti-EpCAM antibody IHC-P image

Immunohistochemistry: Paraffin-embedded human cancer tissue stained with ARG66983 anti-EpCAM antibody at 1:200 dilution.



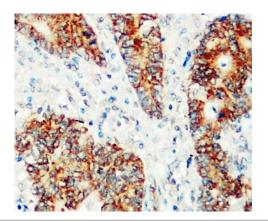
#### ARG66983 anti-EpCAM antibody IHC-P image

Immunohistochemistry: Paraffin-embedded muman tissue stained with ARG66983 anti-EpCAM antibody at 1:200 dilution.



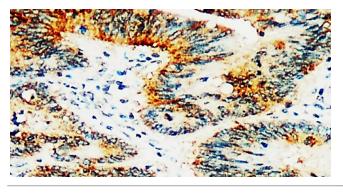
#### ARG66983 anti-EpCAM antibody WB image

Western blot: MCF7 cell lysate stained with ARG66983 anti-EpCAM antibody at 1:1000 dilution, overnight at  $4\,^{\circ}\text{C}.$ 



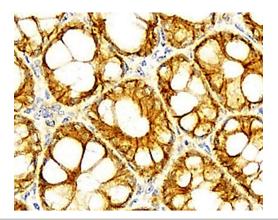
#### ARG66983 anti-EpCAM antibody IHC-P image

Immunohistochemistry: Paraffin-embedded human cancer tissue stained with ARG66983 anti-EpCAM antibody at 1:200 dilution.



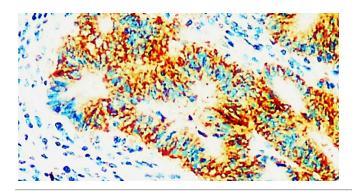
#### ARG66983 anti-EpCAM antibody IHC-P image

Immunohistochemistry: Paraffin-embedded human cancer tissue stained with ARG66983 anti-EpCAM antibody at 1:200 dilution.



#### ARG66983 anti-EpCAM antibody IHC-P image

Immunohistochemistry: Paraffin-embedded muman tissue stained with ARG66983 anti-EpCAM antibody at 1:200 dilution.



# ARG66983 anti-EpCAM antibody IHC-P image

Immunohistochemistry: Paraffin-embedded human cancer tissue stained with ARG66983 anti-EpCAM antibody at 1:200 dilution.