

Product datasheet

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ARG43760 anti-EpCAM antibody

Package: 50 μg Store at: -20°C

Summary

Product Description Rabbit Polyclonal antibody recognizes EpCAM

Tested Reactivity Ms, Rat

Tested Application ICC/IF, IHC-P

Host Rabbit

Clonality Polyclonal

Isotype IgG

Target Name EpCAM

Species Human

Immunogen Recombinant fusion protein corresponding to a.a. E147-N189 in extracellular domain of Mouse 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
	ICC/IF	1:50 - 1:200
	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% Na2HPO4, 0.005% Sodium azide and 4% Trehalose.

Preservative 0.005% Sodium azide

Stabilizer 4% Trehalose

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]