

Rabbit Anti-Human EPCAM Monoclonal Antibody

Cat.No: CABT-38698RH

Lot. No. (See product label)

PRODUCT INFORMATION

Storage	Shipped at 4oC. Upon delivery aliquot and store at -20oC. Avoid freeze / thaw cycles.
Antigen Description	This gene encodes 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.
Specificity	Highly and selectively expressed by undifferentiated rather than differentiated embryonic stem cells (ESC). Levels rapidly diminish as soon as ESCs differentiate (at protein levels). Expressed in almost all epithelial cell membranes but not on mesodermal or neural cell membranes. Found on the surface of adenocarcinoma.
Clone	I4233
Isotype	IgG
Immunogen	Synthetic peptide corresponding to residues in the C-terminus of Human EpCAM.
Format	Liquid
Buffer	Preservative: 0.01% Sodium Azide. Constituents: 40% Glycerol, 0.05% BSA, 0.15M Sodium chloride, 50mM Tris glycine. pH 7.4
Applications	IHC-P, WB, ICC, ICC/IF
Host	Rabbit
species	Human
Sequence similarities	Belongs to the EPCAM family. Contains 1 thyroglobulin type-1 domain.
Post-translation modifications	Hyperglycosylated in carcinoma tissue as compared with autologous normal epithelia. Glycosylation at Asn-198 is crucial for protein stability.

Antigen Gene Information

Gene Name	EPCAM epithelial cell adhesion molecule [Homo sapiens]
Official Symbol	EPCAM
Synonyms	EPCAM; epithelial cell adhesion molecule; antigen identified by monoclonal AUA1 , M4S1, MIC18, TACSTD1, tumor associated calcium signal transducer 1; 17 1A; 323/A3; CD326; CO 17A; EGP 2; EGP34; EGP40; Ep CAM; ESA; GA733 2; HEA125; KS1/4; KSA; Ly74; MH99; MK 1; MOC31; TACST 1; TROP1; 17 1A; 323/A3; Adenocarcinoma associated antigen; Adenocarcinoma-associated antigen; Antigen identified by monoclonal AUA1; CD326; CD326 antigen; Cell surface glycoprotein Trop 1; Cell surface glycoprotein Trop-1; CO 17A; CO17 1A; CO17A; DIAR5; EGP 2; EGP; EGP2; EGP314; EGP40; Ep CAM; Ep-CAM; EPCAM; EPCAM_HUMAN; Epithelial cell adhesion molecule; Epithelial cell surface antigen; Epithelial cellular adhesion molecule; Epithelial glycoprotein 314; Epithelial glycoprotein; ESA; GA733 2; hEGP 2; hEGP314; HNPCC8; Human epithelial glycoprotein 2; KS 1/4 antigen; KS1/4; KSA; Lymphocyte antigen 74; M1S2; M4S1; Major gastrointestinal tumor associated protein GA733 2; Major gastrointestinal tumor-associated protein GA733-2; Membrane component chromosome 4 surface marker (35kD glycoprotein); MIC18; MK 1; TACD1; TACSTD1; TROP1; Tumor associated calcium signal transducer 1; Tumor-associated calcium signal transducer 1; epithelial glycoprotein 314; human epithelial glycoprotein-2; cell surface glycoprotein Trop-1; adenocarcinoma-associated antigen; tumor-associated calcium signal transducer 1; major gastrointestinal tumor-associated protein G; M4S1; MK-1; DIAR5; EGP-2; MIC18; EGP314; HNPCC8; TACSTD1;

GeneID	4072
mRNA Refseq	NM_002354
Protein Refseq	NP_002345

MIM	185535
------------	------------------------

UniProt ID	P16422
-------------------	--------

Chromosome Location	2p21
----------------------------	------

Function	protein binding;
-----------------	------------------