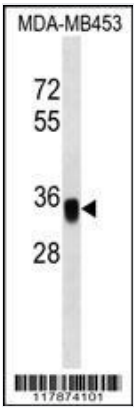
EpCAM Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	EpCAM, Polyclonal Antibody
Full Product Name	EpCAM, CT (EPCAM, GA733-2, M1S2, M4S1, MIC18, TACSTD1, TROP1, Epithelial cell adhesion molecule, Adenocarcinoma-associated antigen, Cell surface glycoprotein Trop-1, Epithelial cell surface antigen, Epithelial glycoprotein, Epithelial glycoprotein 314, KS
Product Gene Name	anti-EpCAM antibody
Product Synonym Names	EPCAM; GA733-2; M1S2; M4S1; MIC18; TACSTD1; TROP1; Epithelial cell adhesion molecule; Adenocarcinoma-associated antigen; Cell surface glycoprotein Trop-1; Epithelial cell surface antigen; Epithelial glycoprotein; Epithelial glycoprotein 314; KS 1/4 antigen; KSA; Major gastrointestinal tumor-associated protein GA733-2; Tumor-associated calcium signal transducer 1; CD326
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	34,932 Da
Chromosome Location	Chromosome: 2; NC_000002.11 (47596287..47614167). Location: 2p21
OMIM	185535
3D Structure	ModBase 3D Structure for P16422
Immunogen	EpCAM antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 199-229 amino acids from the C-terminal region of human EpCAM.
Conjugate	Biotin
Note	Preservative Free
Product Categories/Family for anti-EpCAM antibody	Antibodies; CD Markers
Applications Tested/Suitable for anti-EpCAM antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-EpCAM antibody	WB: 1:100-500 ELISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-EpCAM antibody	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.

Product References and Citations for anti-EpCAM antibody	Kimura, O., et al. Cancer Sci. 101(10):2145-2155(2010). Jiang, L., et al. Breast Cancer Res. Treat. (2010). In press: Lugli, A., et al. Br. J. Cancer 103(3):382-390(2010). Johnatty, S.E., et al. PLoS Genet. 6 (7), E1001016 (2010): Ren, G., et al. Zhonghua Zhong Liu Za Zhi 31(11):841-844(2009).
Other Notes	Small volumes of anti-EpCAM antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for EpCAM purchase	MBS6295910 is an antibody targeting EpCAM. Also known as EpCAM, CT (EPCAM, GA733-2, M1S2, M4S1, MIC18, TACSTD1, TROP1, Epithelial cell adhesion molecule, Adenocarcinoma-associated antigen, Cell surface glycoprotein Trop-1, Epithelial cell surface antigen, Epithelial glycoprotein, Epithelial glycoprotein 314, KS. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-EpCAM antibody
EpCAM Antibody (C-term) western blot analysis in MDA-MB453 cell line lysates (35ug/lane).This demonstrates the EpCAM antibody detected the EpCAM protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for EpCAM. It may not necessarily be applicable to this product.

NCBI GI #	218505670
NCBI GeneID	4072
NCBI Accession #	NP_002345.2
UniProt Primary Accession #	P16422
UniProt Secondary Accession #	P18180; Q6FG26; Q6FG49; Q96C47; Q9UCD0
UniProt Related Accession #	P16422
GenBank Nucleotide #	NM_002354.2
NCBI Official Full Name	epithelial cell adhesion molecule
NCBI Official Synonym Full Names	epithelial cell adhesion molecule
NCBI Official Symbol	EPCAM
NCBI Official Synonym Symbols	ESA; KSA; M4S1; MK-1; DIAR5; EGP-2; EGP40; KS1/4; MIC18; TROP1; EGP314; HNPCC8; TACSTD1
UniProt Protein Name	Epithelial cell adhesion molecule
UniProt Synonym Protein Names	Adenocarcinoma-associated antigen; Cell surface glycoprotein Trop-1; Epithelial cell surface antigen; Epithelial glycoprotein; EGP; Epithelial glycoprotein 314; EGP314; hEGP314; KS 1/4 antigen; KSA; Major gastrointestinal tumor-associated protein GA733-2; Tumor-associated calcium signal transducer 1
Protein Family	Epithelial cell adhesion molecule
UniProt Gene Name	EPCAM
UniProt Synonym Gene Names	GA733-2; M1S2; M4S1; MIC18; TACSTD1; TROP1; Ep-CAM; EGP; EGP314; hEGP314

UniProt Entry Name	EPCAM_HUMAN
NCBI Protein Information	epithelial cell adhesion molecule; 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 pro
UniProt Comments for EpCAM	EPCAM: a single-pass type I membrane protein of the EPCAM family. 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. Expressed in almost all epithelial cell membranes but not on mesodermal or neural cell membranes. Found on the surface of adenocarcinomas including pancreatic carcinoma. May be a marker of cancer stem cells. Protein type: Motility/polarity/chemotaxis; Membrane protein, integral Chromosomal Location of Human Ortholog: 2p21 Cellular Component: tight junction; cell surface; basolateral plasma membrane; apical plasma membrane; integral to membrane; plasma membrane; lateral plasma membrane Molecular Function: protein binding; protein complex binding Biological Process: ureteric bud development; positive regulation of cell proliferation; positive regulation of transcription from RNA polymerase II promoter; stem cell differentiation Disease: Diarrhea 5, With Tufting Enteropathy, Congenital; Colorectal Cancer, Hereditary Nonpolyposis, Type 8
Research Articles on EpCAM	**1.** LA carcinomas and carcinomas negative for basal markers were more often negative for epithelial cell adhesion molecule (Ep-CAM) and P-cadherin
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