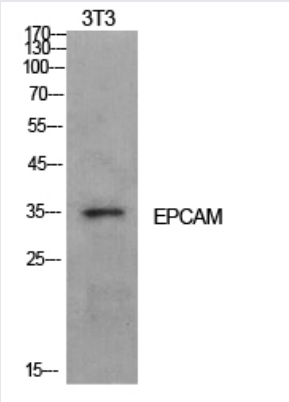
EP-CAM Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	EP-CAM, Polyclonal Antibody
Full Product Name	EP-CAM Polyclonal Antibody
Product Gene Name	anti-EP-CAM antibody
Product Synonym Names	EPCAM; GA733-2; M1S2; M4S1; MIC18; TACSTD1; TROP1; Epithelial cell adhesion molecule; Ep-CAM; Adenocarcinoma-associated antigen; Cell surface glycoprotein Trop-1; Epithelial cell surface antigen; Epithelial glycoprotein; EGP; Epithelial glycoprotein 314
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Purity/Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration	1 mg/ml (lot specific)
Specificity	EP-CAM Polyclonal Antibody detects endogenous levels of EP-CAM protein.
Preparation and Storage	Store at -20 degree C/1 year
Molecular Weight	34,932 Da
OMIM	185535
3D Structure	ModBase 3D Structure for P16422
Immunogen Type	peptide
Immunogen Description	Synthesized peptide derived from the Internal region of human EP-CAM.
Target Name	EP-CAM
Product Categories/Family for anti-EP-CAM antibody	Total protein Ab
Applications Tested/Suitable for anti-EP-CAM antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-EP-CAM antibody	Western Blot: 1:500 - 1:2000 ELISA: 1:10000 Not yet tested in other applications.
Related Product Information for anti-EP-CAM antibody	MBS9401229 is an antibody targeting EP-CAM. Also known as EP-CAM Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-EP-CAM 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.



Western Blot (WB) of anti-EP-CAM antibody
Western Blot analysis of NIH-3T3 cells using EP-CAM Polyclonal Antibody

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for EP-CAM. 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; CD_antigen: CD326
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
NCBI Summary for EP-CAM	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. [provided by RefSeq, Dec 2008]

UniProt Comments for EP-CAM	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: cell surface; tight junction; basolateral plasma membrane; apical plasma membrane; plasma membrane; integral to 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 EP-CAM	**1.** This study reveals that both EpCAM and Trop2 overexpression in pituitary adenomas correlate significantly with invasiveness and proliferation.
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