ARG55250
anti-EpCAM antibody

Package: 100 µl, 50 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody recognizes EpCAM
Tested Reactivity	Hu
Tested Application	IP, WB
Specificity	This antibody detects endogenous levels of EpCAM and does not cross-react with related proteins.
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Target Name	EpCAM
Species	Human
Immunogen	Purified recombinant Human EpCAM protein fragments expressed in E.coli.
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
IP	Assay-dependent
WB	1:1000

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

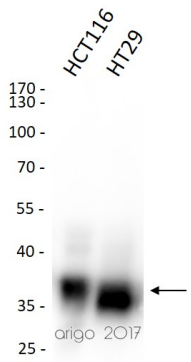
Purification	Affinity purification with immunogen.
Buffer	PBS (pH 7.4), 0.03% Proclin 300 and 50% Glycerol
Preservative	0.03% Proclin 300
Stabilizer	50% Glycerol
Concentration	6 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot 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

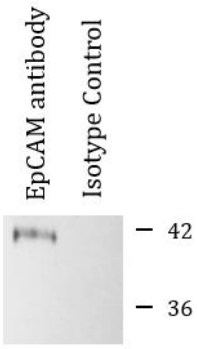
Database links	GeneID: 4072 Human Swiss-port # P16422 Human
Gene Symbol	EPCAM
Gene Full Name	epithelial cell adhesion molecule
Background	EpCAM is a carcinoma-associated antigen and is a member of a family that includes at least two type I membrane proteins. This antigen is expressed on most normal epithelial 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.
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.

Images



ARG55250 anti-EpCAM antibody WB image

Western blot: 30 µg of HCT116 and HT29 cell lysates stained with ARG55250 anti-EpCAM antibody at 1:1000 dilution.



ARG55250 anti-EpCAM antibody IP image

Immunoprecipitation: HCT116 cell lysates were immunoprecipitated and stained with ARG55250 anti-EpCAM antibody.