ARG43902
anti-EpCAM antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes EpCAM
Tested Reactivity	Ms, Rat
Tested Application	ELISA, FACS, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	EpCAM
Species	Mouse
Immunogen	Mouse EpCAM recombinant protein
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
ELISA	0.1-0.5 µg/ml
FACS	1-3 µg/1x10^6
IHC-P	1-2 µg/ml
WB	0.1-0.25 µg/ml

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

Properties

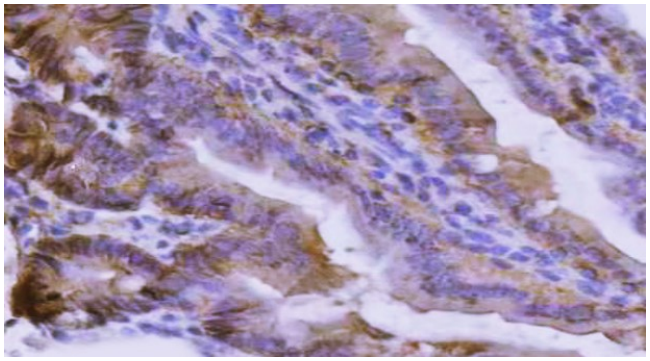
Form	Liquid
Purification	Affinity purified with Immunogen.
Buffer	0.9% NaCl, 0.2% Na2HPO4 and 4% Trehalose.
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. 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

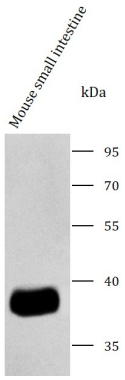
Gene Symbol	EPCAM
Gene Full Name	Epithelial Cell Adhesion Molecule
Background	EpCAM is a carcinoma-associated antigen and is a member of a family that includes at least two type I membrane proteins. This antigen is expressed on most normal epithelial cells and gastrointestinal carcinomas and functions 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.
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]
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	Cell junction, Cell membrane, Membrane, Tight junction

Images



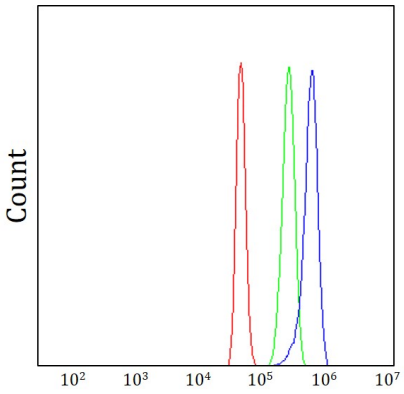
ARG43902 anti-EpCAM antibody IHC-P image

Immunohistochemistry: Mouse colon stained with ARG43902 anti-EpCAM antibody antibody at 2 µg/ml dilution.



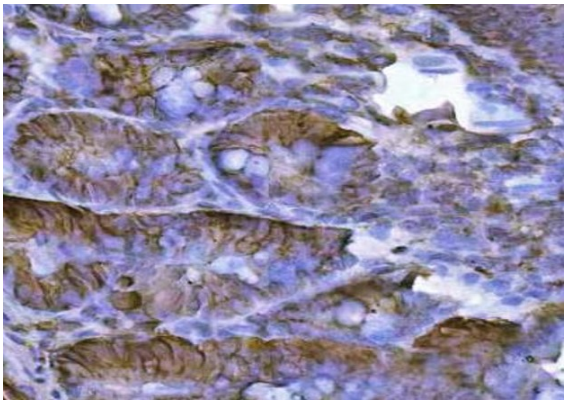
ARG43902 anti-EpCAM antibody WB image

Western blot: Mouse small intestine tissue lysates withARG43902 anti-EpCAM antibody at 0.5 µg/mL dilution.



ARG43902 anti-EpCAM antibody FACS image

Flow Cytometry: RAW264.7 cells stained withARG43902 anti-EpCAM antibody (blue) at 1 µg/1x10^6 cells dilution.



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