ARG66712
anti-EpCAM antibody [SQab20174]

Package: 100 μg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [SQab20174] recognizes EpCAM
Tested Reactivity	Hu
Tested Application	ELISA, FACS, ICC/IF, WB
Host	Mouse
Clonality	Monoclonal
Clone	SQab20174
Isotype	IgG2a, kappa
Target Name	EpCAM
Species	Human
Immunogen	Recombinant protein of Human EpCAM.
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	1:3000 - 1:10000
	FACS	1:400 - 1:1000
	ICC/IF	1:400 - 1:1000
	WB	1:1000 - 1:2000

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Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
Positive Control	SW480
Observed Size	~ 38 kDa

Properties

Form	Liquid
Purification	Purified
Concentration	1 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

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. [UniProt]
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. [UniProt]

Images
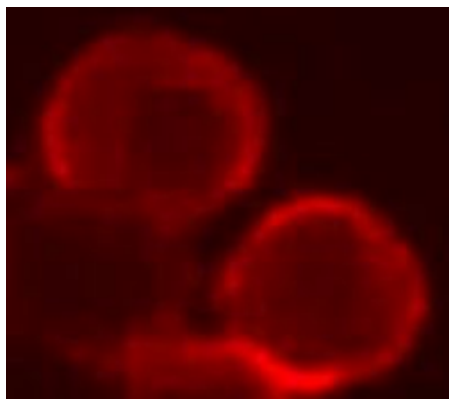
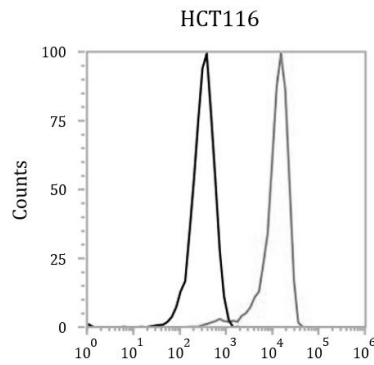

ARG66712 anti-EpCAM antibody [SQab20174] ICC/IF image

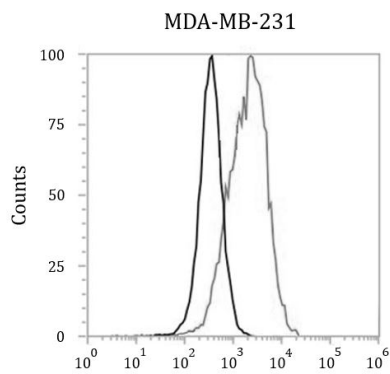Immunofluorescence: SW480 cells stained with ARG66712 anti-EpCAM antibody [SQab20174].
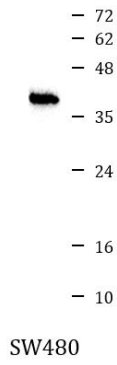
ARG66712 anti-EpCAM antibody [SQab20174] WB image

Western blot: 30 µg of SW480 cell lysate stained with ARG66712 anti-EpCAM antibody [SQab20174] under non-reducing condition.

SW480

— 72
— 62
— 48
— 35
— 24
— 16
— 10

ARG66712 anti-EpCAM antibody [SQab20174] FACS image

Flow Cytometry: HCT116 cells stained with ARG66712 anti-EpCAM antibody [SQab20174] (right histogram) or secondary antibody only (left histogram).

HCT116

ARG66712 anti-EpCAM antibody [SQab20174] FACS image

Flow Cytometry: MDA-MB-231 cells stained with ARG66712 anti-EpCAM antibody [SQab20174] (right histogram) or secondary antibody only (left histogram).

MDA-MB-231