ARG62815
anti-EpCAM antibody [323/A3]

Package: 100 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [323/A3] recognizes CD326 / EpCAM
Tested Reactivity	Hu
Species Does Not React With	Rat
Tested Application	FACS, ICC/IF, IHC-P, IP, WB
Specificity	The clone 323/A3 recognizes CD326 / EpCAM, a marker of epithelial lineages, that is over-expressed in many carcinomas.
Host	Mouse
Clonality	Monoclonal
Clone	323/A3
Isotype	IgG1
Target Name	EpCAM
Species	Human
Immunogen	Human breast cancer MCF-7 cells_x000D_
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
FACS	1 - 4 µg/ml
ICC/IF	1 - 10 µg/ml
IHC-P	1 - 10 µg/ml
IP	1 - 4 µg/ml / 100 - 500 µg of protein in 1 ml lysate
WB	1 - 2 µg/ml

Application Note: IHC-P: Pretreatment: Tissue section digestion with pepsin (15 min at RT or 10 min at 37°C, 1 mg / ml Tris-HCl, pH 2.0).
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Positive Control: WB: A431, MCF7 and SW480
IHC-P: Breast carcinoma

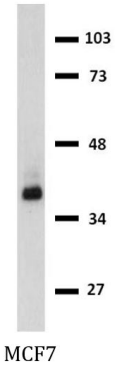
Properties

Form	Liquid
Purification	Purified from cell culture supernatant by protein-A affinity chromatography.
Purity	> 95% (by SDS-PAGE)
Buffer	PBS (pH 7.4) and 15 mM Sodium azide
Preservative	15 mM Sodium azide
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 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

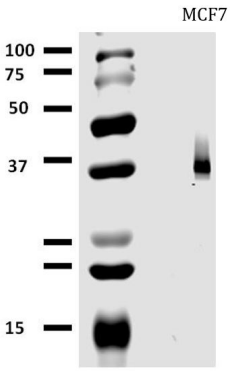
Database links	GeneID: 4072 Human Swiss-port # P16422 Human
Gene Symbol	EPCAM
Gene Full Name	epithelial cell adhesion molecule
Background	EpCAM is a carcinoma-associated antigen and is a member of a family that includes at least two type I membrane proteins. This antigen is expressed on most normal epithelial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

Images



ARG62815 anti-EpCAM antibody [323/A3] WB image

Western blot: MCF7 whole cell lysate stained with ARG62815 anti-EpCAM antibody [323/A3], in non-reducing conditions.



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