

Rabbit anti-Human EpCAM Monoclonal Antibody | anti-EpCAM antibody

Anti-EpCAM [HEA125]

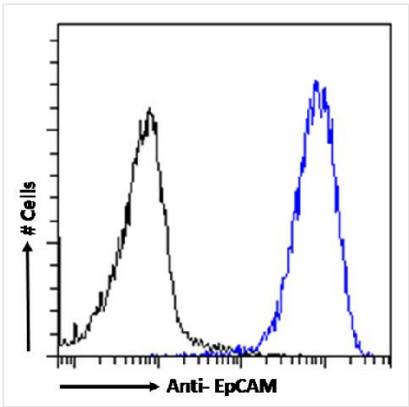
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA72133	Rabbit	Human	immunoassay, Radioimmunoassay, Immunoprecipitation, Western Blot, Immunofluorescence, Immunohistochemistry, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

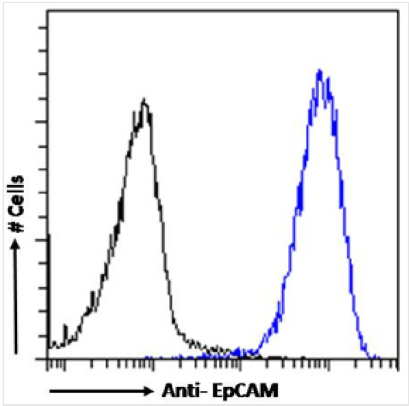
EpCAM; Monoclonal Antibody; Anti-EpCAM [HEA125]; CD326; Ep-CAM; Epithelial cell adhesion molecule; Adenocarcinoma-associated antigen; Cell surface glycoprotein Trop-1; Epithelial cell surface antigen; Epithelial glycoprotein; EGP; Epithelial glycoprotein 314; EGP314; hEGP314; KS 1/4 antigen; KSA; Major gastrointestinal tumor-associated protein GA733-2; Tumor-associated calcium signal transducer 1; HEA 125; anti-EpCAM antibody

PRODUCT SPECIFICATIONS

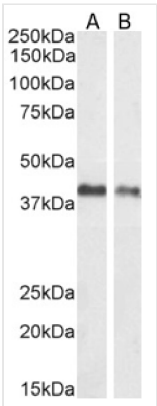
Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG, kappa
Clone Number	HEA125
Specificity	This antibody is specific for the extracytoplasmic part of human EpCAM, a stable and widely-distributed marker expressed on the surface of many adenocarcinomas. It reacts with carcinomas derived from the colorectum, stomach, pancreas, liver, lung, mammary gland, ovary, thyroid, kidney, urinary bladder and prostate.
Purity/Purification	Purified antibody. Protein A affinity purified
Form/Format	PBS with 0.02% Proclin 300.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-EpCAM antibody	RIA (Radioimmunoassay), IP (Immunoprecipitation), WB (Western Blot), IF (Immunofluorescence), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry)
Chimeric Use Statement	This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgG1 format, for improved compatibility with existing reagents, assays and techniques.
PMID	2449234
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.



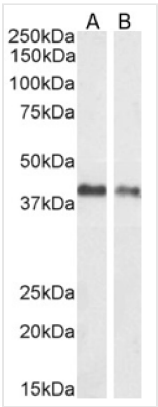
FCM/FACS (Flow Cytometry)
Flow cytometry using the Anti-EpCAM antibody HEA125 (AAA72133). Caco-2 cells were stained with anti-unknown specificity antibody or the mouse IgG1 version of HEA125 at a dilution of 1:100 for 1h at RT. After washing, the bound antibody was detected using a goat anti-mouse IgG AlexaFluor 488 antibody at a dilution of 1:1000 and cells analyzed using a FACSCanto flow-cytometer.



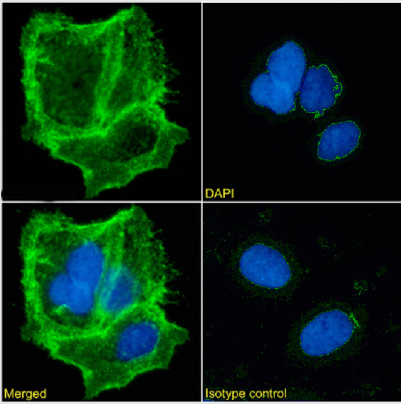
FCM/FACS (Flow Cytometry)
Flow-cytometry using the anti-EpCAM antibody HEA125 (AAA72133). Caco-2 cells were stained with anti-unknown IgG antibody or the mouse IgG-chimeric version of HEA125 at a dilution of 1:100 for 1h at RT. After washing, bound antibody was detected using a goat anti-mouse IgG AlexaFluor 488 antibody at a dilution of 1:1000 and cells analyzed using a FACSCanto flow-cytometer.



WB (Western Blot)
Western Blot using anti-EpCAM antibody HEA125 (AAA72133). human breast carcinoma(A) and human colorectal carcinoma(B) tissue lysate (35ug protein in RIPA buffer) was resolved on an SDS PAGE gel and blots probed with the chimeric mouse IgG version of HEA125 at 1ug/ml before detection using an anti-mouse secondary antibody. A primary incubation of 1h was used and protein was detected by chemiluminescence.



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Western Blot using anti-EpCAM antibody HEA125 (AAA72133). human breast carcinoma(A) and human colorectal carcinoma(B) tissue lysate (35ug protein in RIPA buffer) was resolved on an SDS PAGE gel and blots probed with the chimeric mouse IgG version of HEA125 at 1ug/ml before detection using an anti-mouse secondary antibody. A primary incubation of 1h was used and protein was detected by chemiluminescence.



IF (Immunofluorescence)
Immunofluorescence staining of Caco-2 cells using anti-EpCAM (AAA72133) HEA125. Immunofluorescence analysis of paraformaldehyde fixed Caco-2 cells stained with the chimeric mouse IgG version of HEA125 at 10ug/ml followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing membrane staining. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom DAPI, merged channels and an isotype control. The isotype control was stained with anti-unknown antibody followed by Alexa Fluor 488 secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-EpCAM antibody	Recombinant monoclonal antibody to EpCAM. Recombinant Platform with variable regions (i.e. specificity) from the hybridoma HEA125. This antibody was raised by immunising BALB/c mice with the human colon carcinoma cell line HT-29.
Product Categories/Family for anti-EpCAM antibody	oncology ; carcinoma ; epithelial cells
References	Moldenhauer et al. Epithelium-specific surface glycoprotein of Mr 34,000 is a widely distributed human carcinoma marker. Br J Cancer. 1987 Dec; 56(6): 714-721. Note on publication: Describes the original generation of this antibody, and its characterisation.

NCBI AND UNIPROT INFORMATION

NCBI GI #	218505670
NCBI GeneID	4072
NCBI Accession #	NP_002345.2
NCBI GenBank Nucleotide #	NM_002354.2
UniProt Accession #	P16422 ; P18180 ; Q6FG26 ; Q6FG49 ; Q96C47 ; Q9UCD0
Molecular Weight	34,932 Da
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
NCBI Protein Information	epithelial cell adhesion molecule; epithelial glycoprotein 314; human epithelial glycoprotein-2; cell surface glycoprotein Trop-1; adenocarcinoma-associated antigen; tumor-associated calcium signal transducer 1; major gastrointestinal tumor-associated pro
UniProt Protein Name	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

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/monoclonal/epcam-antibody-clone-hea125-radioimmunoassay-immunoprecipitation-western-blot-immunofluorescence-immunohistochemistry-flow-cytometry-elisa/72133>