

Rabbit anti-Mouse, Rat CD326/Epcam Polyclonal Antibody | anti-CD326/Epcam antibody

Anti-CD326/Epcam Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19728	Rabbit	Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

CD326/Epcam; Polyclonal Antibody; Anti-CD326/Epcam Antibody Picoband; Aryl hydrocarbon receptor nuclear translocator-like protein 1; agouti related neuropeptide; Agouti-related protein; Agrp; Agrt; Art; anti-CD326/Epcam antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Expressed in arcuate nucleus and median eminence, adrenal gland (medulla), hypothalamus, testis, and lung.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-CD326/Epcam antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Application Notes	WB: 0.1-0.25ug/ml, Mouse IHC(Paraffin-embedded Section), 1-2ug/ml, Mouse, Rat IF: 5ug/ml, Mouse, Rat FC/FACS (Fixed): 1-3ug /1x10 ⁶ cells, Mouse ELISA: 0.1-0.5ug/ml
Immunogen	E coli-derived mouse CD326/Epcam recombinant protein (Position: Q24-A267).
Subcellular Localization	Secreted
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein Function	Plays a role in weight homeostasis. Involved in the control of feeding behavior through the central melanocortin system. Acts as alpha melanocyte-stimulating hormone antagonist by inhibiting cAMP production mediated by stimulation of melanocortin receptors within the hypothalamus and adrenal gland. Has very low activity with MC5R. Is an inverse agonist for MC3R and MC4R being able to suppress their constitutive activity (By similarity). It promotes MC3R and MC4R endocytosis in an arrestin-dependent manner (By similarity).
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



FCM (Flow Cytometry)

Figure 6. Flow Cytometry analysis of RAW264.7 cells using anti-CD326/Epcam antibody (AAA19728). Overlay histogram showing RAW264.7 cells stained with AAA19728 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-CD326/Epcam Antibody (AAA19728, 1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IF (Immunofluorescence)

Figure 5. IF analysis of CD326/Epcam using anti-CD326/Epcam antibody (AAA19728). CD326/Epcam was detected in a paraffin-embedded section of rat colon cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 5ug/mL rabbit anti-CD326/Epcam Antibody (AAA19728) overnight at 4 degree C. FITC Conjugated Goat Anti-Rabbit IgG (BA1105) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



IF (Immunofluorescence)

Figure 4. IF analysis of CD326/Epcam using anti-CD326/Epcam antibody (AAA19728). CD326/Epcam was detected in a paraffin-embedded section of mouse colon cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 5ug/mL rabbit anti-CD326/Epcam Antibody (AAA19728) overnight at 4 degree C. FITC Conjugated Goat Anti-Rabbit IgG (BA1105) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



IHC (Immunohistochemistry)

Figure 3. IHC analysis of CD326/Epcam using anti-CD326/Epcam antibody (AAA19728). CD326/Epcam was detected in a paraffin-embedded section of mouse colon tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-CD326/Epcam Antibody (AAA19728) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-CD326/Epcam Antibody (AAA19728) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Lane 2: mouse kidney tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-CD326/Epcam antigen affinity purified polyclonal antibody (#AAA19728) at 0.25ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (40 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-CD326/Epcam antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-CD326/Epcam antibody	Primary Antibodies; Calcium Signaling; Cancer; Cardiovascular; Endocrine System; Fatty Acid Oxidation; Fatty Acids; Lipid and Lipoprotein Metabolism; Lipids/Lipoproteins; Metabolic Signaling Pathways; Metabolism; Neurology Process; Neuroscience; Obesity;
References	1. Litvinov, Sergey; et al. (1994). "Ep-CAM: a human epithelial antigen is a homophilic cell-cell adhesion molecule". The Journal of Cell Biology 125 (2): 437-46.2. Maetzel, Dorothea; et al. (2009). "Nuclear signalling by tumour-associated antigen EpCAM". Nature Cell Biology 11 (2): 162-71.

NCBI AND UNIPROT INFORMATION

NCBI GI #	112293275
NCBI GeneID	17075
NCBI Accession #	NP_032558.2
NCBI GenBank Nucleotide #	NM_008532.2

UniProt Accession #	Q99JW5 ; Q61512
Molecular Weight	35,019 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	EGP; Ly74; gp40; CD326; EGP-2; TROP1; Egp314; Ep-CAM; EpCAM1; Tacstd1; GA733-2; Tacstd1
NCBI Protein Information	epithelial cell adhesion molecule; mEGP314; protein 289A; Trop-1 protein; lymphocyte antigen 74; epithelial glycoprotein 314; panepithelial glycoprotein 314; tumor-associated calcium signal transducer 1
UniProt Protein Name	Epithelial cell adhesion molecule
UniProt Gene Name	Epcam
UniProt Synonym Gene Names	Tacstd1; Ep-CAM; EGP314; mEGP314
UniProt Entry Name	EPCAM_MOUSE

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/cd326-epcam-antibody-flow-cytometry-immunofluorescence-immunohistochemistry-western-blot-elisa/19728>