

Rabbit Carbonic Anhydrase 13/CA13 Polyclonal Antibody | anti-CA13 antibody

Anti-Carbonic Anhydrase 13/CA13 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19326	Rabbit	Human, Mouse, Rat	Western Blot, Immunohistochemistry, Immunocytochemistry, Immunofluorescence, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

Carbonic Anhydrase 13/CA13; Polyclonal Antibody; Anti-Carbonic Anhydrase 13/CA13 Antibody; CA13; Carbonic anhydrase 13; Carbonate dehydratase XIII; Carbonic anhydrase XIII; CA-XIII; carbonic anhydrase 13; anti-CA13 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for Carbonic Anhydrase 13/CA13 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.
Applicable Applications for anti-CA13 antibody	WB (Western Blot), IHC (Immunohistochemistry), ICC (Immunocytochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Application Notes	WB: 0.25-0.5ug/ml Human, Mouse, Rat IHC-P: 2-5ug/ml Human ICC/IF: 5ug/ml Human FC/FACS/FCM: 1-3ug/1x106 cells Human
Immunogen	A synthetic peptide corresponding to a sequence of human Carbonic Anhydrase 13/CA13 (RLSWGYPREHNGPIHWKEFFP).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



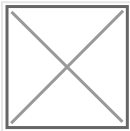
FCM (Flow Cytometry)

Figure 7. Flow Cytometry analysis of CACO-2 cells using anti-Carbonic Anhydrase 13/CA13 antibody (AAA19326).Overlay histogram showing CACO-2 cells stained with AAA19326 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Carbonic Anhydrase 13/CA13 Antibody (AAA19326, 1μg/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10μg/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1μg/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



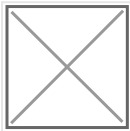
IF (Immunofluorescence)

Figure 6. IF analysis of Carbonic Anhydrase 13/CA13 using anti- Carbonic Anhydrase 13/CA13 antibody (AAA19326).Carbonic Anhydrase 13/CA13 was detected in immunocytochemical section of Hep cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5μg/mL rabbit anti- Carbonic Anhydrase 13/CA13 Antibody (AAA19326) overnight at 4 degree C. DyLight®488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 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 5. IHC analysis of Carbonic Anhydrase 13/CA13 using anti-Carbonic Anhydrase 13/CA13 antibody (AAA19326).Carbonic Anhydrase 13/CA13 was detected in paraffin-embedded section of human ovarian cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-Carbonic Anhydrase 13/CA13 Antibody (AAA19326) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 4. IHC analysis of Carbonic Anhydrase 13/CA13 using anti-Carbonic Anhydrase 13/CA13 antibody (AAA19326).Carbonic Anhydrase 13/CA13 was detected in paraffin-embedded section of human placenta tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-Carbonic Anhydrase 13/CA13 Antibody (AAA19326) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 3. IHC analysis of Carbonic Anhydrase 13/CA13 using anti-Carbonic Anhydrase 13/CA13 antibody (AAA19326).Carbonic Anhydrase 13/CA13 was detected in paraffin-embedded section of human melanoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-Carbonic Anhydrase 13/CA13 Antibody (AAA19326) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of Carbonic Anhydrase 13/CA13 using anti-Carbonic Anhydrase 13/CA13 antibody (AAA19326).Carbonic Anhydrase 13/CA13 was detected in paraffin-embedded section of human liver cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-Carbonic Anhydrase 13/CA13 Antibody (AAA19326) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen.

ADDITIONAL INFORMATION

Related Product Information for anti-CA13 antibody	Carbonic anhydrase 13 is a protein that in humans is encoded by the CA13 gene. Carbonic anhydrases (CAs) are a family of zinc metalloenzymes that catalyze the interconversion between carbon dioxide and water and the dissociated ions of carbonic acid (i. e. bicarbonate and hydrogen ions).
References	1. Lehtonen, J., Shen, B., Vihinen, M., Casini, A., Scozzafava, A., Supuran, C. T., Parkkila, A. -K., Saarnio, J., Kivela, A. J., Waheed, A., Sly, W. S., Parkkila, S. Characterization of CA XIII, a novel member of the carbonic anhydrase isozyme family. J. Biol. Chem. 279: 2719-2727, 2004.

NCBI AND UNIPROT INFORMATION

NCBI GI #	38348436
NCBI GeneID	377677
NCBI Accession #	NP_940986.1

NCBI GenBank Nucleotide #	NM_198584.2
UniProt Accession #	Q8N1Q1
Molecular Weight	29,443 Da
NCBI Official Full Name	carbonic anhydrase 13
NCBI Official Synonym Full Names	carbonic anhydrase XIII
NCBI Official Symbol	CA13
NCBI Official Synonym Symbols	CAXIII
NCBI Protein Information	carbonic anhydrase 13; CA-XIII; carbonate dehydratase XIII
UniProt Protein Name	Carbonic anhydrase 13
UniProt Gene Name	CA13
UniProt Synonym Gene Names	CA-XIII
UniProt Entry Name	CAH13_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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/carbonic-anhydrase-13-ca13-antibody-western-blot-immunohistochemistry-immunocytochemistry-immunofluorescence-flow-cytometry-elisa/19326>