Carbonic Anhydrase IX antibody [GT12]

Cat. No. GTX70020

Host	Mouse
Clonality	Monoclonal
Isotype	IgG2b
Applications	WB, ICC/IF, IHC-P, IHC-Fr, FCM, IP, IHC
Reactivity	Human

References (12)
Package
100 µl

PRODUCT

Summary Carbonic Anhydrase IX antibody (CA9 antibody) detects carbonic anhydrase 9, a ~50 kDa transmembrane glycoprotein. CA9 expression is enhanced by HIF1-alpha signaling in various biological processes, including cell proliferation and transformation. Found in many tissues, CA9 overexpression promotes tumor growth in various cancers.

Applications

Application Note

*Optimal dilutions/concentrations should be determined by the researcher.

Suggested dilution	Recommended dilution
WB	Use at a dilution of 1:1000-1:5000.
ICC/IF	Assay dependent
IHC-P	Use at a dilution of 1:250-1:5000.
IHC-Fr	Assay dependent
FCM	Assay dependent
IP	Assay dependent
IHC	Assay dependent

Not tested in other applications.

Calculated MW 50 kDa. (Note)

Product Note Clone GT12 binds to linear repetitive epitope in the PG region and allows for selective detection of both native and denatured CA IX without cross-reactivity to other carbonic anhydrases.

Properties

Form	Liquid
Buffer	PBS
Preservative	No preservatives
Storage	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4ºC. For long-term storage, aliquot and store at -20ºC or below. Avoid multiple freeze-thaw cycles.

For full product information, images and publications, please visit our website.

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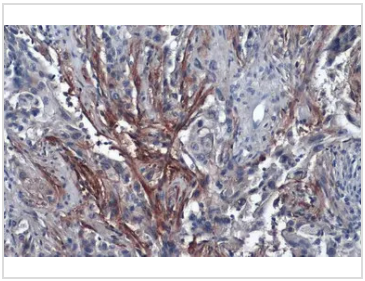
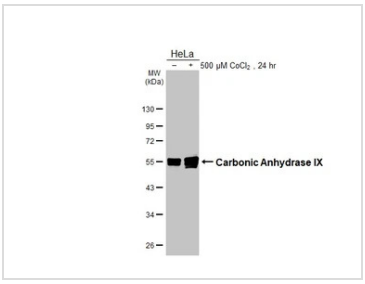
Concentration	0.5 mg/ml (Please refer to the vial label for the specific concentration.)
Conjugation	Unconjugated
Note	For laboratory research use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption. Purchasers shall not, and agree not to enable third parties to, analyze, copy, reverse engineer or otherwise attempt to determine the structure or sequence of the product.

DATA IMAGES



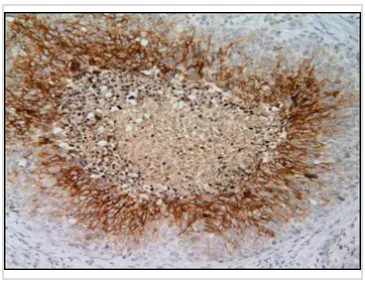
GTX70020 IHC-P Image

Carbonic Anhydrase IX antibody [GT12] detects Carbonic Anhydrase IX protein at cell membrane by immunohistochemical analysis.
Sample: Paraffin-embedded human cervical carcinoma.
Carbonic Anhydrase IX stained by Carbonic Anhydrase IX antibody [GT12] (GTX70020) diluted at 1:500.
Antigen Retrieval: Citrate buffer, pH 6.0, 15 min



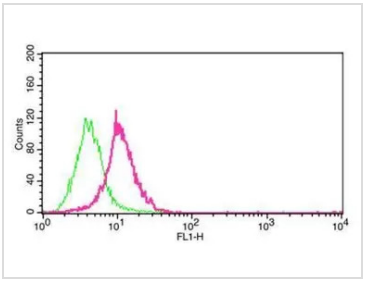
GTX70020 WB Image

Untreated (–) and treated (+) HeLa whole cell extracts (30 µg) were separated by 10% SDS-PAGE, and the membrane was blotted with Carbonic Anhydrase IX antibody [GT12] (GTX70020) diluted at 1:2500. The HRP-conjugated anti-mouse IgG antibody (GTX213111-01) was used to detect the primary antibody.



GTX70020 IHC-P Image

Immunohistochemical analysis of paraffin-embedded cervical CA tissue sections using anti-CAIX antibody [GT12] (GTX70020) at a dilution of 1:1000. The hypoxic regions of the tumor show positive CAIX staining.



GTX70020 FCM Image

Flow cytometry on HeLa cells (1x10^6) stained with anti-CAIX antibody [GT12] (GTX70020) at a 1:1000 dilution. HeLa cells were untreated (green) or treated with 200µM CoCl2 (pink) for 48 hr.

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