

## Carbonic Anhydrase IX antibody [GT12]

**Cat. No. GTX70020**

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

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



For full product information, images and publications, please visit our [website](#).

**Concentration** Batch dependent (Please refer to the vial label for the specific concentration.)

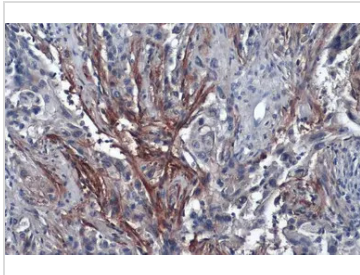
**Conjugation** Unconjugated

**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



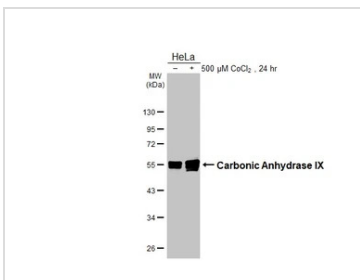
**GTX70020 IHC-P Image**

Carbonic Anhydrase IX antibody [GT12] detects Carbonic Anhydrase IX protein at cell membrane by immunohistochemical analysis.

Sample: Paraffin-embedded human cervical carcinoma.

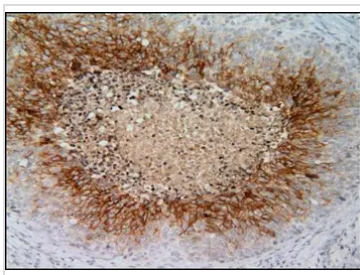
Carbonic Anhydrase IX stained by Carbonic Anhydrase IX antibody [GT12] (GTX70020) diluted at 1:500.

Antigen Retrieval: Citrate buffer, pH 6.0, 15 min



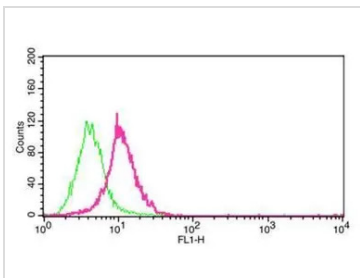
**GTX70020 WB Image**

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 ( $1 \times 10^6$ ) stained with anti-CAIX antibody [GT12] (GTX70020) at a 1:1000 dilution. HeLa cells were untreated (green) or treated with  $200 \mu\text{M}$   $\text{CoCl}_2$  (pink) for 48 hr.



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