

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- α 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

For ICC/IF: Use at a dilution of 1:100-1:1000. For WB: Use at a dilution of 1:100-1:1000. For IHC-P: Use at a dilution of 1:100-1:1000. For FACS: Use at a dilution of 1:100-1:1000 for 1×10^6 cells. For IP: Use at a concentration of 2-10 µg/mg lysate. Optimal dilutions/concentrations should be determined by the researcher.

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 preservative
Storage	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.
Concentration	Batch dependent (Please refer to the vial label for the specific concentration.)
Conjugation	Unconjugated

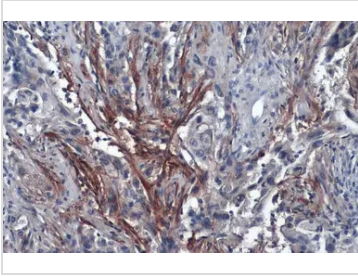
Note

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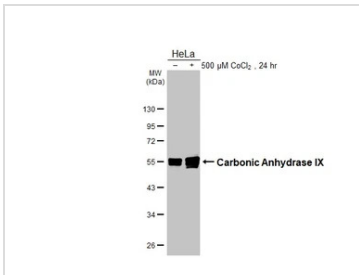
DATA IMAGES

GTX70020 IHC-P Image

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

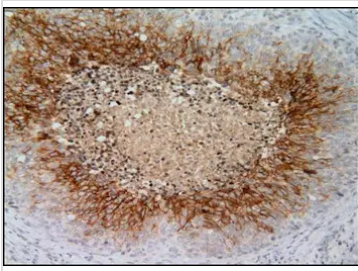
Sample: Paraffin-embedded human cervical carcinoma.

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

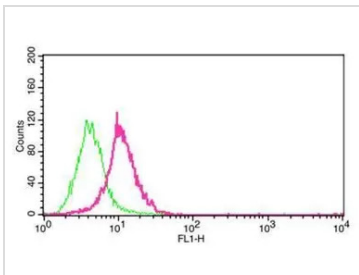
Antigen Retrieval: Citrate buffer, pH 6.0, 15 min


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 (1x10⁶) stained with anti-CAIX antibody [GT12] (GTX70020) at a 1:1000 dilution. HeLa cells were untreated (green) or treated with 200 μM CoCl₂ (pink) for 48 hr.



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