

Carbonic Anhydrase IX antibody [GT12]

Cat. No. GTX70020

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

Reference (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.

APPLICATION

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

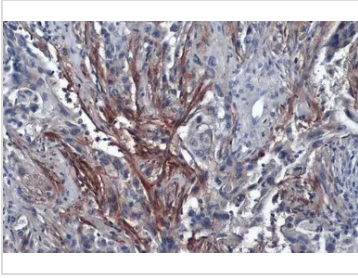
Clone GT12 binds to linear repetitive epitope in the PG region and allows for selective detection of both native and denatured CA IX without cross-reactivity to other carbonic anhydrases.

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	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.



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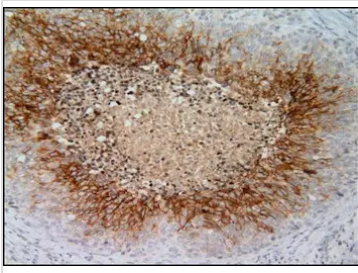
DATA IMAGES

GTX70020 IHC-P Image

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

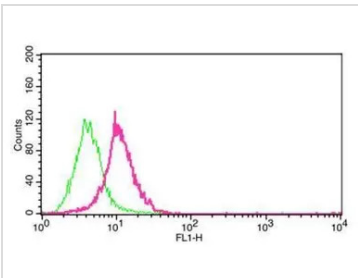
Sample: Paraffin-embedded human cervical carcinoma.

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

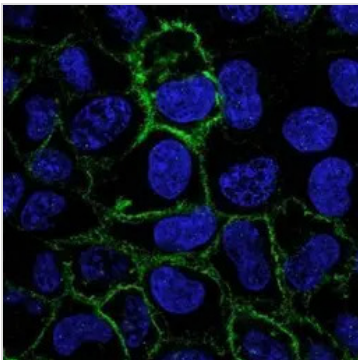
Antigen Retrieval: Citrate buffer, pH 6.0, 15 min


GTX70020 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 FACS Image

Flow cytometry on HeLa cells (1×10^6) stained with anti-CAIX antibody [GT12] (GTX70020) at a 1:1000 dilution. HeLa cells were untreated (green) or treated with 200 μ M CoCl₂ (pink) for 48 hr.


GTX70020 ICC/IF Image

Confocal immunofluorescence analysis (Olympus FV10i) of methanol-fixed A431 cells treated with 200 μ M CoCl₂ for 48hr using anti-CAIX antibody [GT12] (GTX70020) at a dilution of 1:1000.



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