

CAIX Antibody [GT12] (HRP)

Peroxidase-conjugated Mouse monoclonal antibody [GT12] to CAIX

Catalog Number **GTX70020-HRP**

Full Name carbonic anhydrase IX

Synonyms | Carbonic anhydrase9 | carbonic anhydrase IX | CA9 | CAIX | CAIX | MN | CA9 | G250 antigen | CA-IX | P54/58N | RCC-associated antigen G250 | RCC-associated protein G250 | carbonate dehydratase IX | carbonic anhydrase 9 | carbonic dehydratase | membrane antigen MN | pMMW1 | renal cell carcinoma-associated antigen G250 | RCC associated antigen G250 | RCC associated protein G250 | RCC associated antigen G250 | RCC associated protein G250ic anhydrase IX | CAIX | CAIX | CA9 | CA9 |

Background Carbonic anhydrase IX (CAIX) is a member of the CA family of zinc-binding enzymes that catalyze a reversible conversion between carbon dioxide and carbonic acid, in a reaction that involves facilitated hydration of CO₂ to H₂CO₃ followed by the spontaneous dissociation of H₂CO₃ into bicarbonate and proton. The CAIX molecule consists of a large extracellular domain (ECD), single-pass transmembrane region (TM) and a short intracytoplasmic (IC) tail. The ECD contains an N-terminally located PG-like region (which is absent from the other carbonic anhydrase isoforms) and a centrally located, well conserved catalytic domain (CA). CAIX is a cell surface protein that is present in human tumors, but not in the corresponding normal tissues. Moreover, expression of CAIX correlates with poor prognosis in many tumor types. CAIX plays a role in two phenomena involved in development of tumor phenotype - control of cell adhesion and pH regulation. Tight association of CAIX with tumors is to a major part related to tumor hypoxia.

Host Mouse

Clonality Monoclonal

Clone No GT12

Subclass IgG2b

Antigen Species Human

Cross Reactivity Human - Not yet tested in other species.

Applications Flow cytometry/FACS, ICC/IF, Immunohistochemistry, Immunoprecipitation, Western blot. The usefulness of this product in other applications has not been determined.

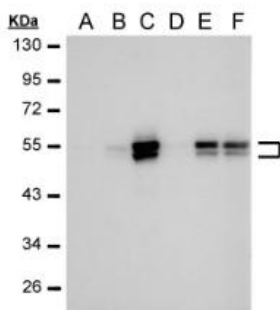
Conjugation HRP

Storage Buffer Aqueous buffered solution containing BSA and ≤ 0.05% sodium azide

Storage Instruction Aliquot and store undiluted at -20°C. Avoid repeated freeze/thaw cycles.

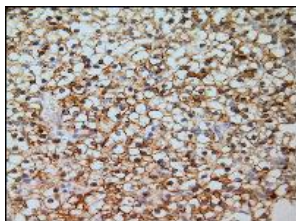
Notes For in vitro research use only. Not intended for any diagnostic or therapeutic purpose. Not suitable for human or animal consumption.

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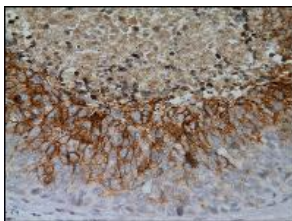


Sample (30 µg HeLa whole cell lysate)
 A: 24 hr Untreated
 B: 24 hr treatment with 100µM CoCl₂
 C: 24 hr treatment with 200µM CoCl₂
 D: 48 hr Untreated
 E: 48 hr treatment with 100µM CoCl₂
 F: 48 hr treatment with 200µM CoCl₂

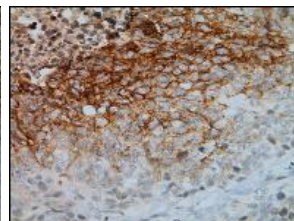
Unconjugated anti-CAIX antibody [GT12] (GTX70020)



Immunohistochemical analysis of paraffin-embedded renal cell carcinoma (clear cell type) using anti-CAIX antibody [GT12] (GTX70020) at a dilution of 1:2000.



Immunohistochemical analysis of paraffin-embedded cervical CA tissue sections using anti-CAIX antibody [GT12] (GTX70020) at a dilution of 1:2000. The hypoxic regions of the tumor show positive CAIX staining.



Immunohistochemical analysis of paraffin-embedded cervical CA tissue sections using anti-CAIX antibody [GT12] (GTX70020) at a dilution of 1:2000. The hypoxic regions of the tumor show positive CAIX staining.

was used at a dilution of 1:2000

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