German Research Products - GRP GmbH

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Product Datasheet

Carbonic Anhydrase IX antibody [GT12] GRP82

Carbonic anhydrase IX (CA IX) is a member of the CA family of Description

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 CA IX 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). CA IX is a cell surface protein that is present in human tumors, but not in the corresponding normal tissues. Moreover, expression of CA IX correlates with poor prognosis in many tumor types. CA IX plays a role in two phenomena involved in development of tumor phenotype control of cell adhesion and pH regulation. Tight association of CA

IX with tumors is to a major part related to tumor hypoxia.

Mouse Species/Host

Reactivity Human

Conjugation Unconjugated

Tested Applications FACS, ICC, IF, IHC-Fr, IHC-P, IP, WB

Liquid: PBS Form/Appearance

Concentration Batch dependent

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.

Note For research use only.

Isotype IgG2b

Clonality Monoclonal

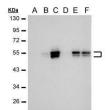
Clone ID GT12

Uniprot ID Q16790

Entrez 768



Immunohistochemical analysis of paraffin-embedded cervical CA tissue sections using anti-CAIX antibody [GT12] (GRP534) at a dilution of 1:1000. The hypoxic regions of the tumor show positive CAIX staining.



Sample (30 ?g HeLa whole cell lysate)A: 24 hr UntreatedB: 24 hr treatment with 100?M CoCl2C: 24 hr treatment with 200?M CoCl2D: 48 hr UntreatedE: 48 hr treatment with 100?M

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