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32-8637: Recombinant Mouse Carbonic Anhydrase 12/CA12 (C-6His)

Gene : Ca12
Gene ID : 76459
Uniprot ID : Q8CI85

Description

Source: Human Cells.
MW :32.4kD.
Recombinant Mouse Carbonic Anhydrase 12 is produced by our Mammalian expression system and the target gene encoding Ala25-Ser301 is expressed with a 6His tag at the C-terminus. Carbonic Anhydrase (CA) XII, also known as Car12 and CA12, is an extracellular enzyme involved in the regulation of the microenvironment acidity and tumor malignant phenotype, was originally identified as a protein overexpressed in some types of cancers. It has showed that CA XII is induced by hypoxia and oestrogen and expressed at high levels on various types of cancer. The enzyme is directly involved in tumour progression, and its inhibition has an anti-tumour effect. Apart from its role in carcinogenesis, the enzyme contributes to various other diseases like glaucoma and arteriosclerotic plaques, among others. CA XII is therefore regarded as promising target for specific therapies, and may be used as a novel prognostic marker in combination with histologic grade of the tumors.

Product Info

Amount :	10 µg / 50 µg
Content :	Lyophilized from a 0.2 µm filtered solution of 20mM Tris,150mM NaCl,pH8.0.
Storage condition :	Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.
Amino Acid :	APLNGSKWTYVGPAGEKNWSKKYPSCGGLLQSPIDLHSDILQYDASLAPLQFQGYNVSVEKLLNLT NDGHSVRLNLNSDMYIQGLQPHHYRAEQLHLHWGNRNDPHGSEHTVSGKHFAAELHIVHYNSDL YPDFSTASDKSEGLAVLAVLIEIGSANPSYDKIFSHLQHVKYKGQQVLIPGFNIEELLPESPGEYYRY EGSLTTPPCYPTVLWTVFRNPVQISQEQLLALETALYFTHMDDPTPREMINNFRQVQKFDERLVYIS FRQGLLTDTGLSVDHHHHHH

Application Note

Endotoxin : Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.