



Anti-CA9 monoclonal antibody, clone 404234 (DCABY-4025)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	Carbonic anhydrases catalyze the reversible reaction of CO2 + H2O = HCO3- + H+, which is fundamental to many processes such as respiration, renal tubular acidification and bone resorption. Human members of the CAs are secreted (CA6), membrane-bound (CA4, 9 to 12 and 14), cytosolic (CA1 to 3, 7, 8 and 13) or mitochondrial (CA5A and 5B). Some CAs may serve as markers for tumors and hypoxia. A subset of CAs lack CA activity due to point mutations but retain esterase function.
Specificity	Detects human Carbonic Anhydrase IX (CA9) in direct ELISAs. In direct ELISAs, this antibody does not cross-react with recombinant mouse (rm) CA9 or with rhCA1, 2, 3, 4, 5A, 6, 7, 8, 10, 12, 13, or 14.
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Carbonic Anhydrase IX. Pro59-Asp414 Accession Number Q16790
Isotype	IgG2a
Source/Host	Mouse
Species Reactivity	Human
Clone	404234
Purification	Protein A or G purified from hybridoma culture supernatant
Conjugate	Unconjugated
Applications	Flow Cytometry, Immunoprecipitation, ELISA Capture (Matched Pair)
Format	Liquid
Size	500 μg

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Buffer	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose.
Preservative	None
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month from date of receipt, 2 to 8 °C, reconstituted. 6 months from date of receipt, -20 to -70 °C, reconstituted.

GENE INFORMATION

Gene Name	CA9 carbonic anhydrase IX [Homo sapiens (human)]
Official Symbol	CA9
Synonyms	CA9; carbonic anhydrase IX; MN; CAIX; carbonic anhydrase 9; pMW1; CA-IX; P54/58N; membrane antigen MN; carbonic dehydratase; carbonate dehydratase IX; RCC-associated antigen G250; RCC-associated protein G250; renal cell carcinoma-associated antigen G250;
Entrez Gene ID	<u>768</u>
Protein Refseq	NP 001207
UniProt ID	Q16790
Chromosome Location	9p13.3
Pathway	Cellular response to hypoxia; Cellular responses to stress; HIF-1-alpha transcription factor network; Metabolism; Nitrogen metabolism; Regulation of Hypoxia-inducible Factor (HIF) by oxygen; Regulation of gene expression by Hypoxia-inducible Factor; Rever
Function	carbonate dehydratase activity; zinc ion binding;