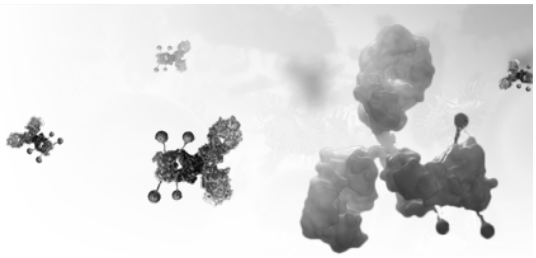

Anti-CA9 polyclonal antibody [Biotin] (DPABY-584)

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) inELISAs and Western blots. In sandwich immunoassays,less than 0.1%cross-reactivity with recombinant mouse (rm) CA9, rhCA12, and rhCA14 is observed.
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Carbonic Anhydrase IX . Pro59-Asp414 Accession Number Q16790
Isotype	IgG
Source/Host	Goat
Species Reactivity	Human
Purification	Antigen Affinity-purified
Conjugate	Biotin
Applications	Western Blot, ELISA Detection (Matched Pair)
Format	Liquid
Size	50 µg
Buffer	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein.

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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, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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	768
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;

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