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Anti-Carbonic Anhydrase 9 Rabbit mAb [93G29]

Catalog No.: A52022

Basic Information

Catalog No. (Cat.No.)	A52022
Host species	Rabbit
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IP,IF,ELISA
Synonyms	Carbonic Anhydrase 9,CA9,CAIX,MN,pMN/CA9

Product Information

Target	Carbonic Anhydrase 9
Molecular Weight(Calculated)	49 kDa
Molecular Weight(Observed)	49 kDa
Isotype	IgG,Kappa
Conjugation	NA
Concentration	0.2 mg/ml
Clonality	Monoclonal
Clone No.	93G29
RRID	NA
Storage buffer	50% Glycerol, 0.05% BSA and 0.05% preservative in PBS (pH 7.2-7.4)
Storage	Stored at -20°C for 1 year. Avoid repeated freeze / thaw cycles.
Shipped at conditions	Frozen
Form	Liquid

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Product Usage Information

Application	Dilution
WB	1:1000-1:5000
IHC	1:200-1:1000
IP	1:50-1:200
IF	1:200-1:1000
ELISA	1:5000-1:20000

Target Information

Protein Name	Carbonic anhydrase 9
Gene Name	*CA9*
Domain	NA
Background	Carbonic Anhydrase 9 (CA9) is a zinc metalloenzyme and transmembrane glycoprotein belonging to the α-carbonic anhydrase family, encoded by the CA9 gene and serves as a typical hypoxia-inducible tumor-associated biomarker. It catalyzes the reversible hydration of carbon dioxide into bicarbonate and protons to regulate intracellular and extracellular pH homeostasis. Specifically induced and highly expressed in hypoxic solid tumor regions while rarely detected in normal tissues, CA9 remodels the acidic tumor microenvironment to facilitate cancer cell proliferation, invasion, metastasis and chemoresistance. It also participates in cell adhesion modulation and metabolic reprogramming, driving malignant progression of multiple tumors such as clear cell renal cell carcinoma and lung cancer.