

## ARG57724 anti-CA9 / Carbonic Anhydrase 9 antibody [PN-15]

Package: 50 µg  
Store at: -20°C

### Summary

Product Description	Mouse Monoclonal antibody [PN-15] recognizes CA9 / Carbonic Anhydrase 9
Tested Reactivity	Hu
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Mouse
Clonality	Monoclonal
Clone	PN-15
Isotype	IgG2b, kappa
Target Name	CA9 / Carbonic Anhydrase 9
Species	Human
Immunogen	The microsomal fraction of Human renal cortical tissue homogenate.
Conjugation	Un-conjugated
Alternate Names	EC 4.2.1.1; MN; CAIX; pMW1; Carbonic anhydrase 9; Carbonic anhydrase IX; RCC-associated antigen G250; Membrane antigen MN; P54/58N; Carbonate dehydratase IX; Renal cell carcinoma-associated antigen G250; CA-IX

### Application Instructions

Application table	Application	Dilution
	FACS	0.5 - 1 µg/10 <sup>6</sup> cells
	ICC/IF	1 - 5 µg/ml
	IHC-P	1 - 5 µg/ml
	WB	0.5 - 1 µg/ml
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

### Properties

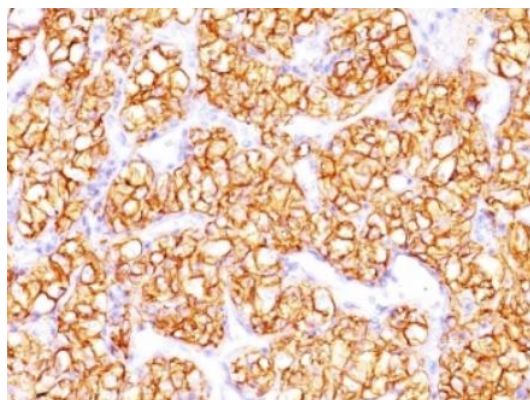
Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS, 0.05% Sodium azide and 0.1 mg/ml BSA.
Preservative	0.05% Sodium azide
Stabilizer	0.1 mg/ml BSA
Concentration	0.2 mg/ml

Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

Gene Symbol	CA9
Gene Full Name	carbonic anhydrase IX
Background	Carbonic anhydrases (CAs) are a large family of zinc metalloenzymes that catalyze the reversible hydration of carbon dioxide. They participate in a variety of biological processes, including respiration, calcification, acid-base balance, bone resorption, and the formation of aqueous humor, cerebrospinal fluid, saliva, and gastric acid. They show extensive diversity in tissue distribution and in their subcellular localization. CA IX is a transmembrane protein and is one of only two tumor-associated carbonic anhydrase isoenzymes known. It is expressed in all clear-cell renal cell carcinoma, but is not detected in normal kidney or most other normal tissues. It may be involved in cell proliferation and transformation. This gene was mapped to 17q21.2 by fluorescence in situ hybridization, however, radiation hybrid mapping localized it to 9p13-p12. [provided by RefSeq, Jun 2014]
Function	Reversible hydration of carbon dioxide. Participates in pH regulation. May be involved in the control of cell proliferation and transformation. Appears to be a novel specific biomarker for a cervical neoplasia. [UniProt]
Calculated Mw	50 kDa
PTM	Asn-346 bears high-mannose type glycan structures. [UniProt]

## Images



ARG57724 anti-CA9 / Carbonic Anhydrase 9 antibody [PN-15] IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human renal cell carcinoma stained with ARG57724 anti-CA9 / Carbonic Anhydrase 9 antibody [PN-15].