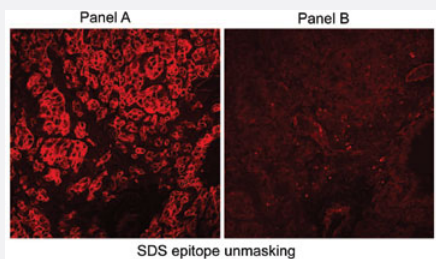


CA9 polyclonal antibody

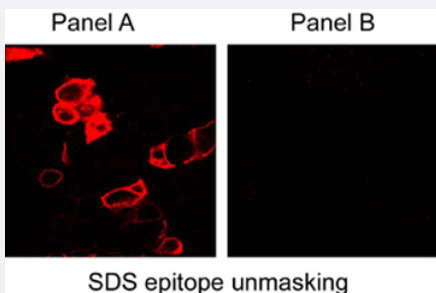
Catalog # PAB12466 Size 100 uL

Applications



Immunofluorescence

Immunofluorescence of CA9 on human RCC tumor cryosections using CA9 polyclonal antibody (Cat # PAB12466) (Panel A). Panel B shows staining with normal rabbit serum.



Immunofluorescence

Immunofluorescence of CA9 on HEK 293 cells using CA9 polyclonal antibody (Cat # PAB12466). Panel A shows CA9-transfected cells (epitope-unmasked with SDS) and panel B shows mock transfected cells.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of CA9.
Immunogen	A synthetic peptide corresponding to C-terminus of human CA9.
Host	Rabbit
Reactivity	Dog, Human, Rat
Specificity	This antibody is specific to human CA IX.
Form	Liquid
Preparation Method	Immunogen affinity purified

Recommend Usage	Immunofluorescence (1:1000) Immunohistochemistry (Frozen sections) (1:1000) Western Blot (1:2000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.025% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot
- Immunohistochemistry (Frozen sections)
- Immunohistochemistry
- Immunofluorescence

Immunofluorescence of CA9 on human RCC tumor cryosections using CA9 polyclonal antibody (Cat # PAB12466) (Panel A). Panel B shows staining with normal rabbit serum.

- Immunofluorescence

Immunofluorescence of CA9 on HEK 293 cells using CA9 polyclonal antibody (Cat # PAB12466). Panel A shows CA9-transfected cells (epitope-unmasked with SDS) and panel B shows mock transfected cells.

Gene Info — CA9

Entrez GeneID	768
Protein Accession#	Q16790
Gene Name	CA9
Gene Alias	CAIX, MN
Gene Description	carbonic anhydrase IX
Omim ID	603179
Gene Ontology	Hyperlink

Gene Summary

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 the only tumor-associated carbonic anhydrase isoenzyme 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]

Other Designations

OTTHUMP00000022773|RCC-associated protein G250|carbonic dehydratase

Publication Reference

- [Brachytherapy for oral tongue cancer: an analysis of treatment results with various biological markers.](#)

Sakata K, Someya M, Nagakura H, Nakata K, Oouchi A, Takagi M, Hareyama M.

Japanese Journal of Clinical Oncology 2008 Jun; 38(6):402.

Application: IHC, Human, Human tongue cancer

- [Tumor angiogenic and hypoxic profiles predict radiographic response and survival in malignant astrocytoma patients treated with bevacizumab and irinotecan.](#)

Sathornsumetee S, Cao Y, Marcello JE, Herndon JE 2nd, McLendon RE, Desjardins A, Friedman HS, Dewhirst MW, Vredenburgh JJ, Rich JN.

Journal of Clinical Oncology: Official Journal of the American Society of Clinical Oncology 2008 Jan; 26(2):271.

Application: IHC-P, Human, Human malignant astrocytoma

- [Is the downregulation of EphB2 receptor expression during colorectal tumorigenesis due to hypoxia?](#)

Kaidi A, Moorthen M, Williams AC, Paraskeva C.

Gut 2007 Nov; 56(11):1637.

Application: IHC-P, Human, Human colon carcinoma, normal colon

- [Hypoxia can be detected in irradiated normal human tissue: a study using the hypoxic marker pimonidazole hydrochloride.](#)

Westbury CB, Pearson A, Nerurkar A, Reis-Filho JS, Steele D, Peckitt C, Sharp G, Yarnold JR.

Br J Radiol 2007 Oct; 80(959):934.

- [Expression of the hypoxia marker carbonic anhydrase 9 is associated with anaplastic phenotypes in meningiomas.](#)

Yoo H, Baia GS, Smith JS, McDermott MW, Bollen AW, Vandenberg SR, Lamborn KR, Lal A.

Clinical Cancer Research 2007 Jan; 13(1):68.

Application: IHC-P, WB-Ce, Human, Human meningioma, IOMM-Lee, SF4068, SF4433 cells

Pathway

- [Nitrogen metabolism](#)

Disease

- [Alzheimer disease](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Cerebral Amyloid Angiopathy](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Head and Neck Neoplasms](#)
- [Kidney Neoplasms](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Neuroblastoma](#)