

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Product datasheet for AM32835PU-T

Carbonic Anhydrase IX (CA9) Marker Mouse Monoclonal Antibody [Clone ID: 66.4.C2 (PN-15)]

Product data:

Product Type:	Primary Antibodies
Clone Name:	66.4.C2 (PN-15)
Applications:	FC, IF, IHC, IP, WB
Recommended Dilution:	 ELISA: For Coating Use Antibody without BSA. Western Blot: 0.5-1 μg/ml. Immunoprecipitation: 1-2 μg/500 μg protein lysate. Flow Cytometry: 0.5-1 μgl/10⁶ cells. Immunohistochemistry on Frozen and Formalin-Fixed Paraffin Sections: 0.5-1 μg/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires boiling tissue sections in 10mM Citrate Buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes. Positive Control: Normal kidney or renal cell carcinoma.
Reactivity:	Equine, Human
Host:	Mouse
lsotype:	lgG2b
Clonality:	Monoclonal
Immunogen:	Microsomal fraction of Human renal cortical tissue homogenate



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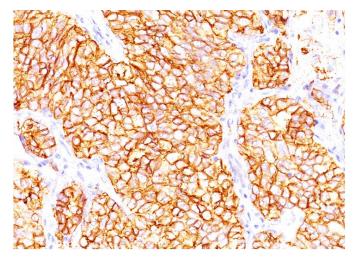
	Carbonic Anhydrase IX (CA9) Marker Mouse Monoclonal Antibody [Clone ID: 66.4.C2 (PN-15)] – AM32835PU-T
Specificity:	 Recognizes a glycoprotein of ~200kDa, identified as carbonic anhydrase IX (CAIX/gp200). Its epitope resides in the carbohydrate domain of gp200. It shows no significant cross-reactivity with other carbohydrate determinants, such as the Lewis blood group antigens, epithelial membrane antigen, HMFG, and AB blood group antigens. In normal kidney, gp200 is localized along the brush border of the pars convoluta and pars recta segments of the proximal tubule, as well as focally along the luminal surface of Bowman's capsule adjoining the outgoing proximal tubule. This Monoclonal antibody may be useful in the investigations of carcinomas of proximal nephrogenic differentiation especially those showing tubular differentiation. The renal cell carcinoma (RCC) monoclonal antibody marker, also known as RCC-ma, is a marker for renal cell carcinoma (reviewed in <i>Ingold et al</i>, 2008). The <i>66.4.C2</i> antibody has been used in antibody panels to help determine or rule out renal cell carcinoma. For example, a kidney mass removed from a neonate with suspected tuberous sclerosis complex was negative for renal cell carcinoma antibody staining and it was determined that renal cell carcinoma (<i>Chen et al</i>, 2012). In contrast, a kidney mass from a child was positive for renal cell carcinoma antibody staining and the mass was defined as a renal cell carcinoma antibody reactivity has been described in up to 93% of primary Human renal cell carcinoma antibody reactivity has been described in up to 93% of primary Human renal cell carcinomas and 84% of renal cell carcinoma metastases. The clone <i>66.4.C2</i> antibody has also been used to help make a diagnosis of renal cell carcinoma, gp200 is nost commonly referred to as Renal Cell Carcinoma Marker. The actual protein recognized by RCC-ma antibody is a 200 kDa glycoprotein (gp200) expressed in renal epithelial cells. In normal tissue, the renal cell carcinoma/RCC-ma/gp200 antibody stains the brush border of proximal renal cell carcinoma antibody reactivity has been des
Formulation:	10mM PBS State: Purified State: Liquid purified IgG fraction from Bioreactor Concentrate Stabilizer: 0.05% BSA Preservative: 0.05% Sodium Azide
Concentration:	lot specific
	Protein A/G Chromatography
urification:	
Purification: Conjugation:	Unconjugated

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Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	200 kDa
Gene Name:	carbonic anhydrase 9
Database Link:	<u>Entrez Gene 768 Human</u> <u>Q16790</u>
Background:	Renal cell carcinoma (RCC) is a common form of kidney cancer that poses challenges for the pathologist (reviewed in Ingold et al, 2008). Firstly, renal cell carcinoma (RCC) may initially present as a metastatic lesion of an undetected primary tumor. Secondly, a late occurrence of renal cell carcinoma metastasis after nephrectomy can make it difficult to confirm renal origin. Thirdly, metastatic renal cell carcinoma has morphological similarities with various types of primary non-renal tumors thereby compounding typing challenges. In view of these issues, antibodies recognizing protein markers associated with a given cancer have become important tools for tumor classification.
Synonyms:	Carbonic anhydrase 9, Carbonic anhydrase IX, Carbonate dehydratase IX, Membrane antigen MN, P54/58N, pMW1, CA9, CA IX, G250
Protein Families: Protein Pathways:	Druggable Genome, Transmembrane Nitrogen metabolism

Product images:



Formalin-Fixed, Paraffin-Embedded Human Renal Cell Carcinoma stained with RCC Antibody (Clone 66.4.C2). Note cytoplasmic staining of cells. Note cytoplasmic and cell surface staining of tumor cells.

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