



# Carbonic Anhydrase IX Antibody [SPM487]

Cat. No.: 34-185



## Ψ Specifications

<b>HOST SPECIES:</b>	Mouse
<b>SPECIES REACTIVITY:</b>	Horse, Human
<b>IMMUNOGEN:</b>	The microsomal fraction of human renal cortical tissue homogenate was used as the immunogen for this Carbonic Anhydrase IX antibody.
<b>TESTED APPLICATIONS:</b>	Flow, IF, IHC, WB
<b>APPLICATIONS:</b>	<p>Flow Cytometry: 0.5-1 ug/million cells in 0.1ml</p> <p>Immunofluorescence: 1-2 ug/ml</p> <p>Western blot: 0.5-1 ug/ml</p> <p>Immunohistochemistry (FFPE): 0.5-1 ug/ml for 30 minutes at RT (1)</p> <p>Prediluted format: incubate for 30 min at RT (2)</p> <p>The optimal dilution of the Carbonic Anhydrase IX antibody for each application should be determined by the researcher.</p> <ol style="list-style-type: none"> <li>1. 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.</li> <li>2. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.</li> </ol>

## Ψ Properties

<b>PURIFICATION:</b>	Protein G affinity chromatography
<b>CLONALITY:</b>	Monoclonal
<b>ISOTYPE:</b>	IgG2b, kappa
<b>CONJUGATE:</b>	Unconjugated
<b>PHYSICAL STATE:</b>	Liquid
<b>BUFFER:</b>	PBS with 0.1 mg/ml BSA and 0.05% sodium azide
<b>CONCENTRATION:</b>	0.2 mg/mL
<b>STORAGE CONDITIONS:</b>	Aliquot and Store at 2-8 °C. Avoid freeze-thaw cycles.

## Ψ Additional Info

<b>OFFICIAL SYMBOL:</b>	CA9
<b>ALTERNATE NAMES:</b>	Carbonic anhydrase 9, Carbonate dehydratase IX, Carbonic anhydrase IX, CA-IX, CAIX, Membrane antigen MN, P54/58N, Renal cell carcinoma-associated antigen G250, RCC-associated antigen G250, pMW1, CA9, G250, MN
<b>GENE ID:</b>	768
<b>USER NOTE:</b>	Optimal dilutions for each application to be determined by the researcher

## Ψ Background and References

<b>BACKGROUND:</b>	Recognizes a glycoprotein of ~200kDa, identified as carbonic anhydrase IX (CAIX/CA9/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. Reportedly, gp200 is expressed by 93% of primary and 84% of metastatic renal cell carcinomas. This mAb may be useful in the investigations of carcinomas of proximal nephrogenic differentiation especially those showing tubular differentiation.
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