

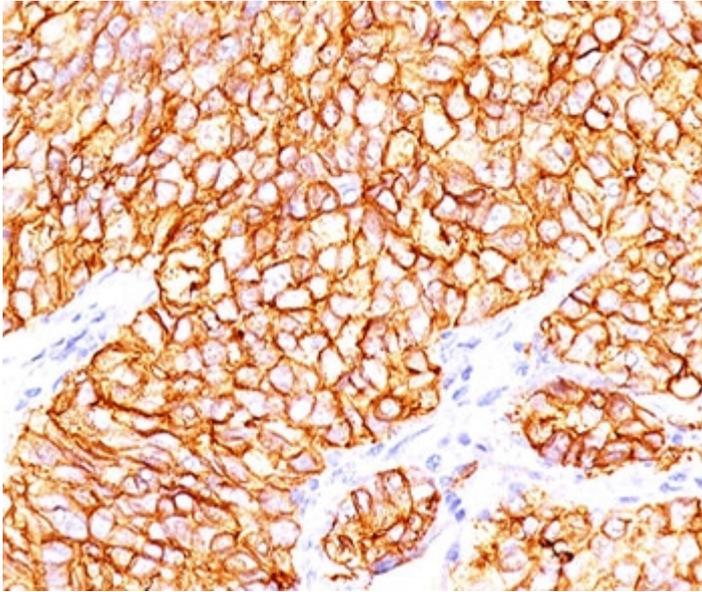
CAIX Antibody / Carbonic Anhydrase IX [clone 66.4.C2] (V2022)

| Catalog No. | Formulation | Size |
|----------------|---|--------|
| V2022-100UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 100 ug |
| V2022-20UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 20 ug |
| V2022SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free | 100 ug |
| V2022IHC-7ML | Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only* | 7 ml |

 [Citations \(1\)](#)

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| | |
|---------------------------|---|
| Species Reactivity | Human |
| Format | Purified |
| Clonality | Monoclonal (mouse origin) |
| Isotype | Mouse IgG2b, kappa |
| Clone Name | 66.4.C2 |
| Purity | Protein G affinity chromatography |
| Buffer | 1X PBS, pH 7.4 |
| Gene ID | 768 |
| Localization | Cell surface and cytoplasmic |
| Applications | Flow cytometry : 0.5-1ug/10 ⁶ cells Immunofluorescence : 1-2ug/ml Western blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 0.5-1ug/ml for 30 min at RT |
| Limitations | This CAIX antibody is available for research use only. |



IHC testing of formalin-paraffin human renal cell carcinoma stained with CAIX antibody (66.4.C2). Note cytoplasmic & cell surface staining of tumor cells.

Description

This antibody recognizes a glycoprotein of ~200kDa, identified as renal cell carcinoma protein, carbonic anhydrase IX / CAIX, or gp200. Its epitope resides in the carbohydrate domain of the protein. The CAIX antibody 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, CAIX 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, it is expressed by 93% of primary and 84% of metastatic renal cell carcinomas. This CAIX antibody may be useful in the investigations of carcinomas of proximal nephrogenic differentiation, especially those showing tubular differentiation.

Application Notes

The concentration stated for each application is a general starting point. Variations in protocols, secondaries and substrates may require the CAIX antibody to be titrated up or down for optimal performance.

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.
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.

Immunogen

The microsomal fraction of human renal cortical tissue homogenate was used as the immunogen for this Carbonic Anhydrase IX / CAIX antibody.

Storage

Store the CAIX antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Alternate Names

Renal cell carcinoma, gp200, CAIX antibody

References (2)