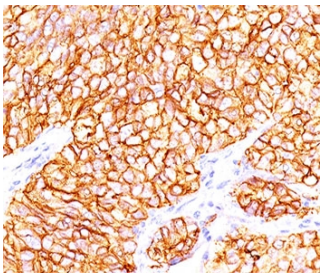
CAIX Antibody / Carbonic Anhydrase IX [clone 66.4.C2] (V2022)

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)

Bulk quote request

Species Reactivity	Human
Format	Purified
Host	Mouse
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 titered 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)