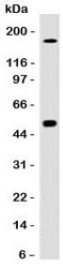
CAIX Antibody / Carbonic Anhydrase IX [clone CBAD9-1] (V7180)

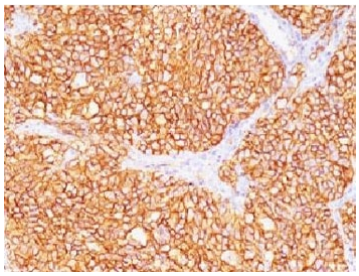
Catalog No.	Formulation	Size
V7180-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7180-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7180SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V7180IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	CBAD9-1
Purity	Protein G affinity chromatography
UniProt	Q16790
Localization	Cell surface and cytoplasmic
Applications	Western blot: 1-2ug/ml Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT (1) Prediluted IHC only format: incubate for 30 min at RT (2)
Limitations	This CAIX antibody is available for research use only.



Western blot testing of HCT116 cell lysate with CAIX antibody (clone CBAD9-1). Predicted molecular weight: 50-55 kDa but may be observed at higher molecular weights due to glycosylation.



IHC testing of FFPE human renal cell carcinoma with CAIX antibody (clone CBAD9-1).

Description

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. Carbonic anhydrase IX is a transmembrane protein and is one of only two tumor-associated carbonic anhydrase isoenzymes 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. [RefSeq]

Application Notes

Titering of the CAIX antibody may be required for optimal performance.

1. FFPE testing requires sections to be boiled in pH6 10mM citrate buffer for 10-20 minutes, followed by cooling at RT for 20 minutes, prior to staining.
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

Recombinant human protein was used as the immunogen for the CAIX antibody.

Storage

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

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