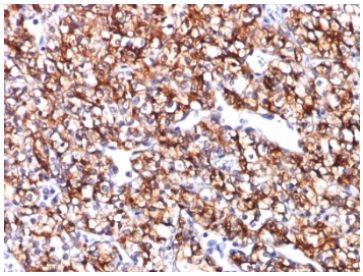
# CAIX Antibody / Carbonic anhydrase IX [clone CA9/781] (V2938)

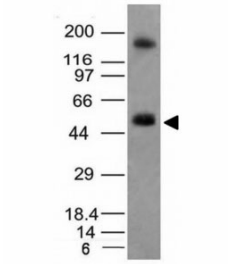
| Catalog No. | Formulation | Size |
|---|---|---|
| V2938-100UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 100 ug |
| V2938-20UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 20 ug |
| V2938SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free | 100 ug |
| V2938IHC-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**

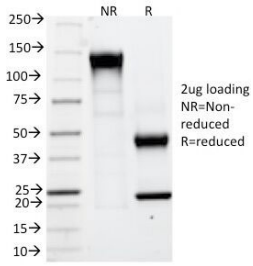
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human |
| **Format** | Purified |
| **Host** | Mouse |
| **Clonality** | Monoclonal (mouse origin) |
| **Isotype** | Mouse IgG2b, kappa |
| **Clone Name** | CA9/781 |
| **Purity** | Protein G affinity chromatography |
| **UniProt** | Q16790 |
| **Localization** | Cell surface and cytoplasmic |
| **Applications** | Western Blot : 0.5-1ug/ml<br>Immunohistochemistry (FFPE) : 0.5-1ug/ml for 30 min at RT |
| **Limitations** | This CAIX antibody is available for research use only. |



IHC: Formalin-fixed, paraffin-embedded human renal cell carcinoma stained with CAIX antibody (CA9/781).




Western blot analysis of HCT116 cell lysate using CAIX antibody (CA9/781). Predicted molecular weight: 50-55 kDa but may be observed at higher molecular weights due to glycosylation.




SDS-PAGE Analysis of Purified, BSA-Free CAIX Antibody (clone CA9/781). Confirmation of Integrity and Purity of the Antibody.

## Description

Recognizes a glycoprotein identified as carbonic anhydrase IX (CAIX). Carbonic Anhydrases (CAs) are members of a large family of zinc metallo-enzymes that catalyze the reversible hydration of carbon dioxide. CAs are involved 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 juice. They show extensive diversity in distribution and in their subcellular localization. CA IX is specifically expressed in clear-cell renal carcinomas.

## Application Notes

Optimal dilution of the CAIX antibody should be determined by the researcher.

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 min.
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).