

# Anti-Carbonic Anhydrase XIV antibody



Catalog Number: 100665

## Product name

Anti-Carbonic Anhydrase XIV antibody

## Immunogen

[Human Carbonic Anhydrase XIV \(His Tag\) recombinant protein](#)

## Specificity

Human Carbonic Anhydrase XIV / CA14

## Antibody description

Rabbit polyclonal to Carbonic Anhydrase XIV

## Preparation

Produced in rabbits immunized with purified, recombinant Human Carbonic Anhydrase XIV / CA14 (rh Carbonic Anhydrase XIV / CA14; NP\_036245.1; Met1-Met290). Carbonic Anhydrase XIV / CA14 specific IgG was purified by Human Carbonic Anhydrase XIV / CA14 affinity chromatography.

## Formulation

0.2  $\mu$ m filtered solution in PBS

## Storage

This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C. Preservative-Free.

Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.

## Clonality

Polyclonal

## Ig Type

Rabbit IgG

## Applications

ELISA, WB, IHC-P, IP

## Dilutions

WB: 20-40  $\mu$ g/ml

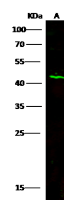
ELISA: 0.1-0.2  $\mu$ g/ml

This antibody can be used at 0.1-0.2  $\mu$ g/ml with the appropriate secondary reagents to detect Human Carbonic Anhydrase XIV / CA14. The detection limit for Human Carbonic Anhydrase XIV / CA14 is approximately 0.0049 ng/well.

IHC-P: 0.2-2  $\mu$ g/ml

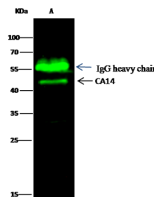
IP: 1-4  $\mu$ g/mg of lysate

## Validations



Items	Lanes	A
Sample (Membrane lysate)		293T
Sample Volume (μg/lane)		20
Gel		13% SDS-PAGE reducing gel
Recommended Concentration		20-40 μg/ml
Secondary Antibody		Dylight 800-labeled Antibody to Rabbit IgG (H+L), at 1:5000 dilution.
Developed using Odyssey imaging system.		
Explanation		Predicted band size: ~38 kDa Observed band size: ~45 kDa

Carbonic Anhydrase XIV / CA14 Antibody, Rabbit PAb, Antigen Affinity Purified, Western blot



Items	Lanes	A
Sample (whole cell lysate)		293T
Sample quantity		0.5 mg
IP antibody quantity		2 μg
Protein G agarose		15 μl of 50% Protein G Agarose
Gel		13% SDS-PAGE reducing gel
Primary antibody		CA14-His antibody at 5 μg/ml
Secondary antibody		Dylight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution.

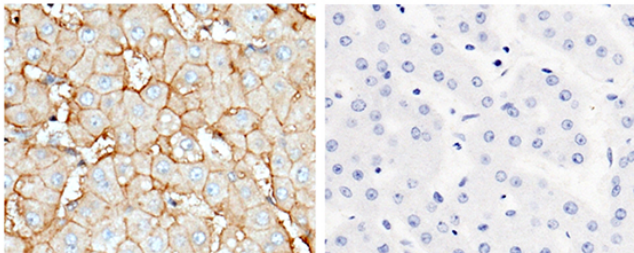
# Anti-Carbonic Anhydrase XIV antibody



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Carbonic Anhydrase XIV / CA14 Antibody, Rabbit PAb, Antigen Affinity Purified, Immunoprecipitation

Immunochemical staining of human PTPRA in human hepatoma with rabbit polyclonal antibody (1 µg/mL, formalin-fixed paraffin embedded sections).



CA14-pAb	+	+
CA14	-	+

Carbonic Anhydrase XIV / CA14 Antibody, Rabbit PAb, Antigen Affinity Purified, Immunohistochemistry

Immunochemical staining of human CA14 in human liver with rabbit polyclonal antibody (1 µg/mL, formalin-fixed paraffin embedded sections). Positive staining was localized to membrane of hepatocyte. The left panel: tissue incubated with primary antibody; The right panel: tissue incubated with the mixture of primary antibody and antigen (recombinant protein).