

Datasheet for ABIN6940916

**anti-CA8 antibody**

7 Images

[Go to Product page](#)

## Overview

Quantity:	100 µg
Target:	CA8
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Application:	Immunohistochemistry (IHC), Staining Methods (StM)

## Product Details

Immunogen:	Recombinant full-length human CA8 protein
Clone:	CPTC-CA8-2
Isotype:	IgG2a kappa
Purification:	Purified by Protein A/G

## Target Details

Target:	CA8
Alternative Name:	CA8 ( <a href="#">CA8 Products</a> )
Background:	The protein encoded by this gene was initially named CA-related protein because of sequence similarity to other known carbonic anhydrase genes. However, the gene product lacks carbonic anhydrase activity (i.e., the reversible hydration of carbon dioxide). The gene product continues to carry a carbonic anhydrase designation based on clear sequence identity to other members of the carbonic anhydrase gene family. The absence of CA8 gene transcription in the

## Target Details

cerebellum of the lurcher mutant in mice with a neurologic defect suggests an important role for this acatalytic form. Mutations in CA8 gene causes neuropathology, such as ataxia, mild mental retardation and the predisposition to quadrupedal gait. It is also associated with the development of colorectal and lung cancers. Additionally, it is upregulated in various cancers.

Molecular Weight: 32.97kDa

Gene ID: 767

UniProt: [P35219](#)

## Application Details

Application Notes: Positive Control: Human cerebellum. Selective expression in purkinje cells. HEK-293 and K-562 cell lines.

Known Application: Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT)(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined.

Restrictions: For Research Use only

## Handling

Concentration: 200 µg/mL

Buffer: 10 mM PBS with 0.05 % BSA & 0.05 % azide.

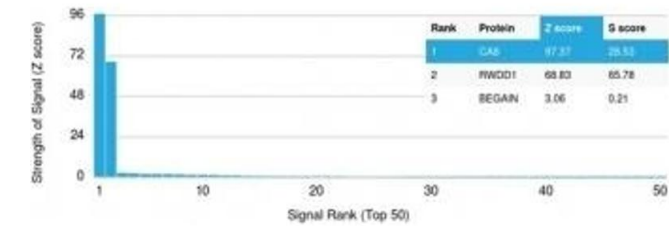
Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C,-80 °C

Storage Comment: Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Expiry Date: 24 months

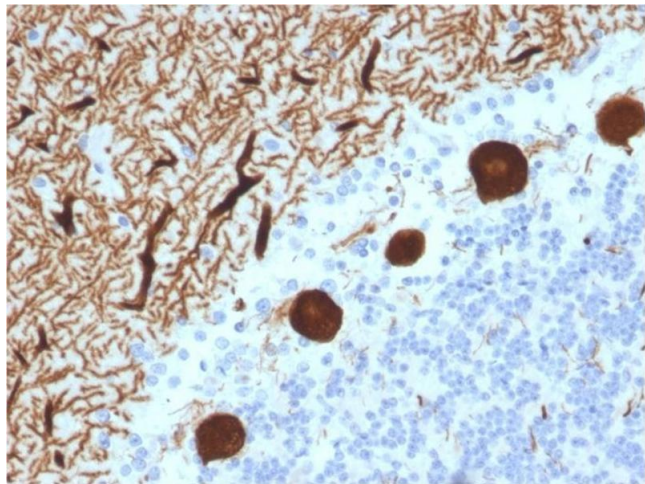


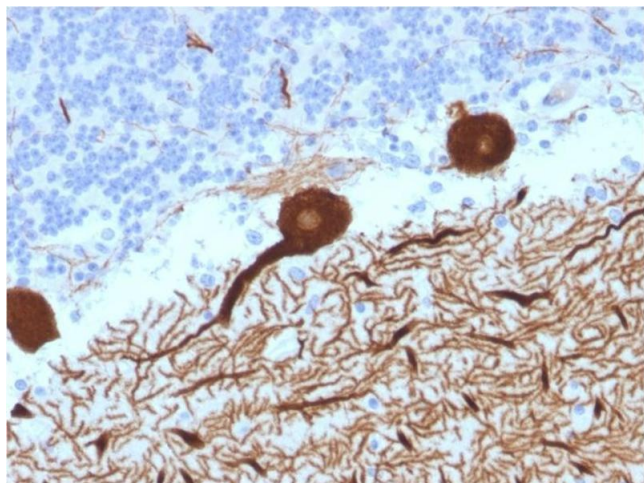
### Protein Array

**Image 1.** Analysis of Protein Array containing more than 19,000 full-length human proteins using Carbonic Anhydrase VIII Mouse Monoclonal Antibody (CPTC-CA8-2). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.

### Immunohistochemistry

**Image 2.** Formalin-fixed, paraffin-embedded human Cerebellum stained with CA8 Mouse Monoclonal Antibody (CPTC-CA8-2).





#### Immunohistochemistry

**Image 3.** Formalin-fixed, paraffin-embedded human Cerebellum stained with CA8 Mouse Monoclonal Antibody (CPTC-CA8-2).

Please check the [product details page](#) for more images. Overall 7 images are available for ABIN6940916.