

## Datasheet for ABIN6936553 **anti-CA8 antibody**



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### Overview

|              |                                                                                 |
|--------------|---------------------------------------------------------------------------------|
| Quantity:    | 100 µg                                                                          |
| Target:      | CA8                                                                             |
| Reactivity:  | Human                                                                           |
| Host:        | Mouse                                                                           |
| Clonality:   | Monoclonal                                                                      |
| Conjugate:   | This CA8 antibody is un-conjugated                                              |
| Application: | Western Blotting (WB), Immunohistochemistry (Formalin-fixed Sections) (IHC (f)) |

### Product Details

|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| Immunogen:   | Recombinant full-length human CA8 protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Clone:       | CPTC-CA8-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Isotype:     | IgG2a kappa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Specificity: | 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 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. |

## Product Details

|                             |                                                         |
|-----------------------------|---------------------------------------------------------|
| Cross-Reactivity (Details): | Human.                                                  |
| Purification:               | 1.0mg/ml of Ab purified from Bioreactor by Protein A/G. |

## Target Details

|                   |                                                                                                                     |
|-------------------|---------------------------------------------------------------------------------------------------------------------|
| Target:           | CA8                                                                                                                 |
| Alternative Name: | CA8 ( <a href="#">CA8 Products</a> )                                                                                |
| Background:       | CA-VIII, CALS, CARP, MGC120502, MGC99509,Carbonic Anhydrase VIII<br>Cellular localisation: Cytoplasm. Cell surface. |
| Molecular Weight: | 32.97kDa                                                                                                            |
| Gene ID:          | 767, 654388                                                                                                         |
| UniProt:          | <a href="#">P35219</a>                                                                                              |

## Application Details

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application Notes: | Known_Application: Western Blot (1-2 µg/mL), ,Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT),(Staining of formalin-fixed tissues requires heating tissue sections in 10 mM Tris with 1 mM EDTA, pH 9.0, for 45 min at 95 &degC followed by cooling at RT for 20 minutes),Optimal dilution for a specific application should be determined.<br>Positive_Control: Human cerebellum. Selective expression in purkinje cells. HEK-293 or K-562 cell lines. |
| Restrictions:      | For Research Use only                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

## Handling

|                  |                                                                                                 |
|------------------|-------------------------------------------------------------------------------------------------|
| Concentration:   | 1.0 mg/mL                                                                                       |
| Buffer:          | Prepared in 10 mM PBS, WITHOUT BSA and Azide.                                                   |
| Preservative:    | Azide free                                                                                      |
| Storage:         | -20 °C,-80 °C                                                                                   |
| Storage Comment: | Antibody without azide store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. |
| Expiry Date:     | 24 months                                                                                       |