

36-3384: Anti-Carbonic Anhydrase VIII Monoclonal Antibody(Clone: CPTC-CA8-2)

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| Clonality : | Monoclonal |
| Clone Name : | CPTC-CA8-2 |
| Application : | WB,IHC |
| Reactivity : | Human |
| Gene : | CA8 |
| Gene ID : | 767 |
| Uniprot ID : | P35219 |
| Alternative Name : | CA-VIII; CALS; CARP; MGC120502; MGC99509 |
| Isotype : | Mouse IgG2a |
| Immunogen Information : | Recombinant full-length human CA8 protein |

Description

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 Info

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| Amount : | 20 µg / 100 µg |
| Content : | 200 µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml. |
| Storage condition : | 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. |

Application Note

Western Blot (1-2ug/ml); ,Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT),(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95 °C followed by cooling at RT for 20 minutes),

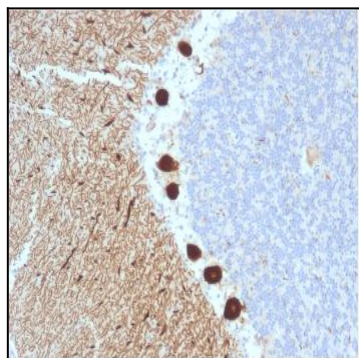


Fig. 1: Formalin-fixed, paraffin-embedded human Cerebellum stained with CA8 Mouse Monoclonal Antibody (CPTC-CA8-2).

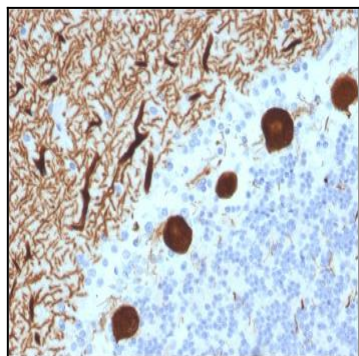


Fig. 2: Formalin-fixed, paraffin-embedded human Cerebellum stained with CA8 Mouse Monoclonal Antibody (CPTC-CA8-2).

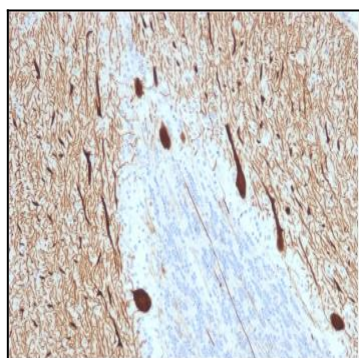


Fig. 3: Formalin-fixed, paraffin-embedded human Cerebellum stained with CA8 Mouse Monoclonal Antibody (CPTC-CA8-2).

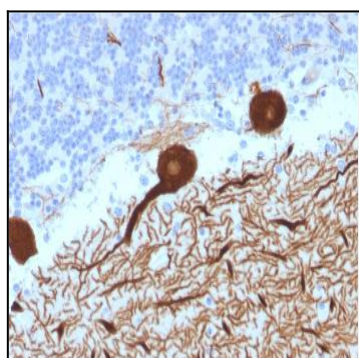


Fig. 4: Formalin-fixed, paraffin-embedded human Cerebellum stained with CA8 Mouse Monoclonal Antibody (CPTC-CA8-2).

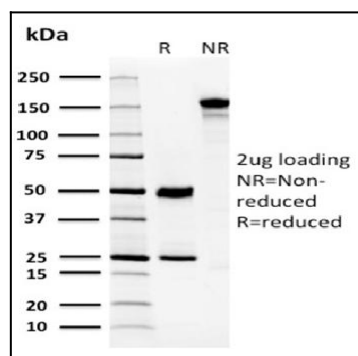


Fig. 5: SDS-PAGE Analysis Purified CA8 Mouse Monoclonal Antibody (CPTC-CA8-2). Confirmation of Purity and Integrity of Antibody