

# CA8 Rabbit Polyclonal Antibody

Catalog No: #55248

Package Size: #55248-1 50ul #55248-2 100ul

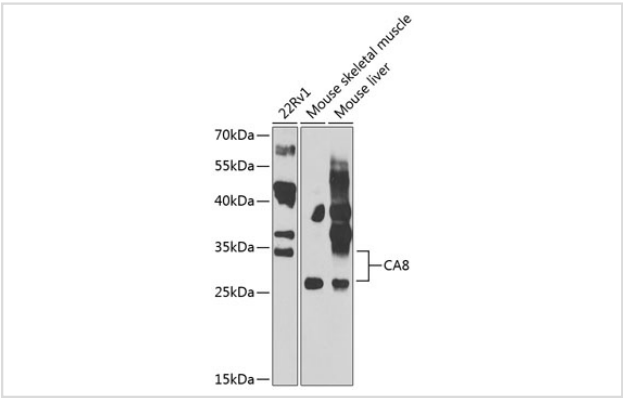
## Description

|                       |                                                         |
|-----------------------|---------------------------------------------------------|
| Product Name          | CA8 Rabbit Polyclonal Antibody                          |
| Host Species          | Rabbit                                                  |
| Clonality             | Polyclonal                                              |
| Isotype               | IgG                                                     |
| Purification          | Affinity purification                                   |
| Applications          | WB,IHC                                                  |
| Species Reactivity    | Human,Mouse                                             |
| Immunogen Description | Recombinant fusion protein of human CA8 (NP_004047.3).  |
| Conjugates            | Unconjugated                                            |
| Other Names           | CA8;CA-RP;CA-VIII;CALS;CAMRQ3;CARP                      |
| Accession No.         | Swiss Prot:P35219GenelD:767                             |
| Calculated MW         | 32kDa                                                   |
| SDS-PAGE MW           | 33kDa                                                   |
| Formulation           | Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3. |
| Storage               | Store at -20°C. Avoid freeze / thaw cycles.             |

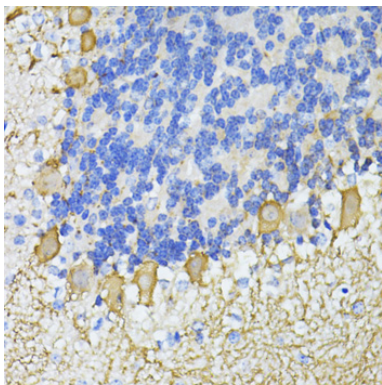
## Application Details

WB 1:500 - 1:2000IHC 1:50 - 1:200

## Images



Western blot analysis of extracts of various cell lines, using CA8 at 1:1000 dilution.



Immunohistochemistry of paraffin-embedded mouse cerebellum using CA8 at dilution of 1:100 (40x lens).

## 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 cerebellum of the *lurcher* mutant in mice with a neurologic defect suggests an important role for this acatalytic form. Mutations in this gene are associated with cerebellar ataxia, mental retardation, and dysequilibrium syndrome 3 (CMARQ3). Polymorphisms in this gene are associated with osteoporosis, and overexpression of this gene in osteosarcoma cells suggests an oncogenic role. Alternative splicing results in multiple transcript variants.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.