Product Datasheet

CA8 Antibody / Carbonic Anhydrase VIII (orb2642344)

Catalog Number	orb2642344
Category	Antibodies
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 (carbonic anhydrase 8) 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. [RefSeq]
Clonality	Monoclonal
Species/Host	Mouse
Isotype	Mouse IgG2a
Conjugation	Unconjugated
Reactivity	Human
Buffer/Preservatives	1 mg/ml in 1X PBS; rAlbumin free, sodium azide free
Purification	Protein G affinity
Immunogen	Full length recombinant human protein was used as the immunogen for the CA8 antibody.

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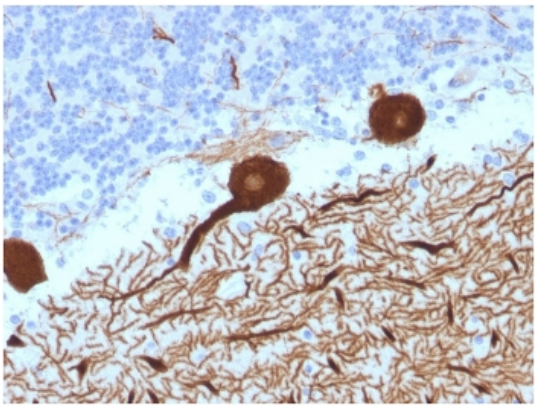
UniProt ID	**P35219**
Tested applications	IHC-P, WB
Dilution range	Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT,Western blot: 1-2ug/ml
Application notes	Optimal dilution of the CA8 antibody should be determined by the researcher.1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.
Antibody Type	Primary Antibody
Clone Number	CPTC-CA8-2
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only
Expiration Date	12 months from date of receipt.



IHC testing of FFPE human cerebellum with CA8 antibody (clone CPTC-CA8-2). HIER: boil tissue sections in pH6, 10 mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.

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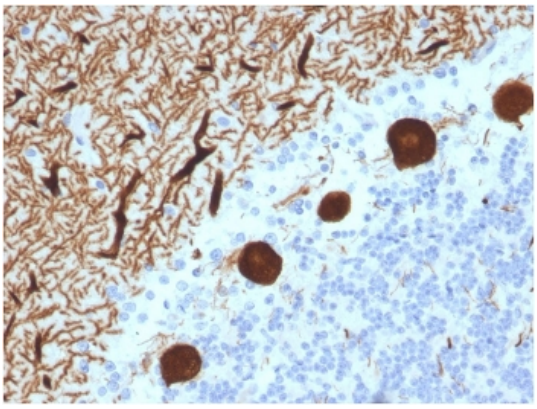

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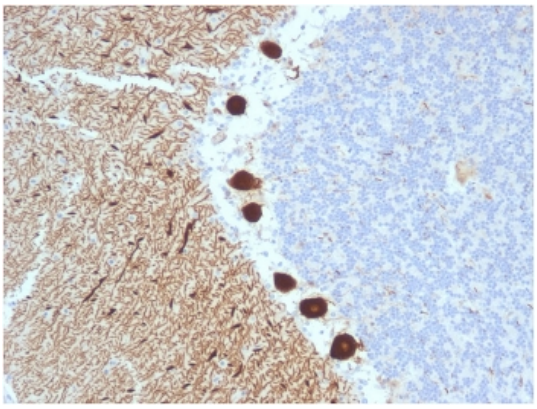

Analysis of HuProt (TM) microarray containing more than 19000 full-length human proteins using CA8 antibody (clone CPTC-CA8-2). These results demonstrate the foremost specificity of the CPTC-CA8-2 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt (TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt (TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.

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