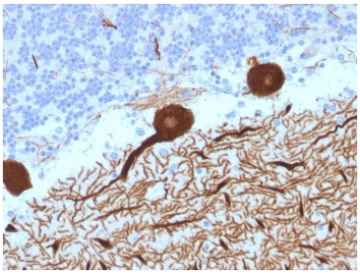
CA8 Antibody / Carbonic Anhydrase VIII [clone CPTC-CA8-2] (V7363)

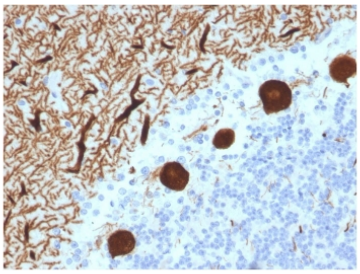
Catalog No.	Formulation	Size
V7363-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7363-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7363SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V7363IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a
Clone Name	CPTC-CA8-2
Purity	Protein G affinity
UniProt	P35219
Localization	Cytoplasmic, membrane
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT Western Blot : 1-2ug/ml
Limitations	This CA8 antibody is available for research use only.



IHC testing of FFPE human cerebellum with CA8 antibody (clone CPTC-CA8-2). HIER: boil tissue sections in pH6, 10mM citrate buffer or pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 min.



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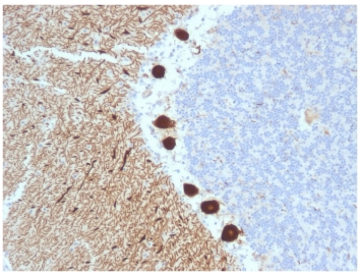

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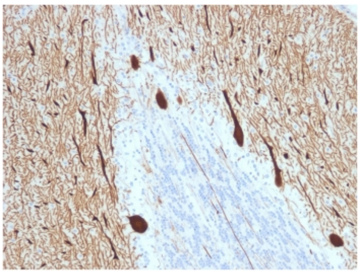

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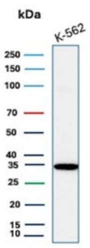
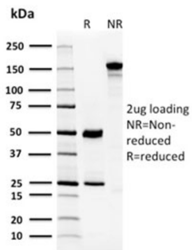
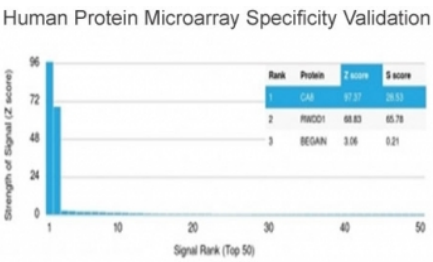


Western blot testing of human K562 cell lysate with CA8 antibody.



SDS-PAGE analysis of purified, BSA-free CA8 antibody (clone CPTC-CA8-2) as confirmation of integrity and purity.



Analysis of HuProt(TM) microarray containing more than 19,000 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.

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]

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.

Immunogen

Full length recombinant human protein was used as the immunogen for the CA8 antibody.

Storage

Store the CA8 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).