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CA14 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP7306a

Specification

CA14 Antibody (N-term) - Product Information

Application	**WB, FC,E**
Primary Accession	O9ULX7
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit Ig**
Calculated MW	**37668**
Antigen Region	**51-80**

CA14 Antibody (N-term) - Additional Information

Gene ID 23632

Other Names
Carbonic anhydrase 14, Carbonate dehydratase XIV, Carbonic anhydrase XIV, CA-XIV, CA14

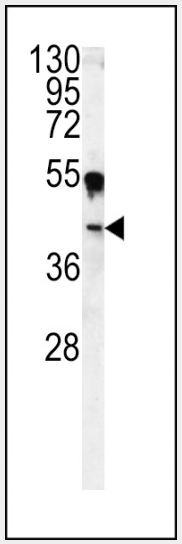
Target/Specificity
This CA14 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 51-80 amino acids from the N-terminal region of human CA14.

Dilution
WB~~1:1000
FC~~1:10~50

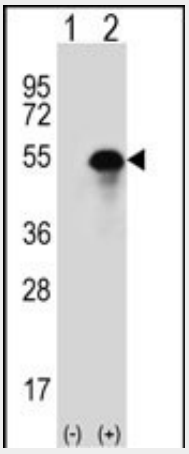
Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

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.

Precautions
CA14 Antibody (N-term) is for research use only and not for use in diagnostic or



Western blot analysis of CA14 antibody (N-term) (Cat.#AP7306a) in A375 cell line lysates (35ug/lane). CA14 (arrow) was detected using the purified Pab.



Western blot analysis of CA14 (arrow) using rabbit polyclonal CA14 Antibody (N-term) (Cat.#AP7306a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the CA14 gene.

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therapeutic procedures.

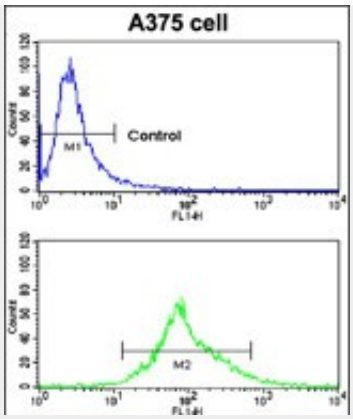
CA14 Antibody (N-term) - Protein Information

Name CA14

Function
Reversible hydration of carbon dioxide.

Cellular Location
Membrane; Single-pass type I membrane protein

Tissue Location
High expression in all parts of the central nervous system and lower expression in adult liver, heart, small intestine, colon, kidney, urinary bladder and skeletal muscle



Flow cytometric analysis of A375 cells using CA14 Antibody (N-term) (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

CA14 Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CA14 Antibody (N-term) - Background

CA14 belongs a large family of zinc metalloenzymes that catalyze the versible hydration of carbon dioxide. The protein is predicted to be a type I membrane protein and shares highest sequence similarity with the other transmembrane CA isoform, CA XII; however, they have different patterns of tissue-specific expression and thus may play different physiologic roles.

CA14 Antibody (N-term) - References

Parkkila,S. Natl. Acad. Sci. U.S.A. 98 (4), 1918-1923 (2001)
Fujikawa-Adachi,K., Nishimori,I. Genomics 61 (1), 74-81 (1999)
Tarun,A.S., Bryant,B. Chem. Senses 28 (7), 621-629 (2003)