Product Name: **CA XIV Rabbit Polyclonal Antibody**
Catalog #: **APRab07776**
For research use only.

Summary

Description	Rabbit polyclonal Antibody
Host	Rabbit
Application	WB,ELISA
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2000,ELISA 1:10000-1:20000
Molecular Weight	34kDa

Antigen Information

Gene Name	CA14
Alternative Names	CA14; Carbonic anhydrase 14; Carbonate dehydratase XIV; Carbonic anhydrase XIV; CA-XIV
Gene ID	23632.0
SwissProt ID	Q9ULX7
Immunogen	The antiserum was produced against synthesized peptide derived from human CA14. AA range:161-210

Background

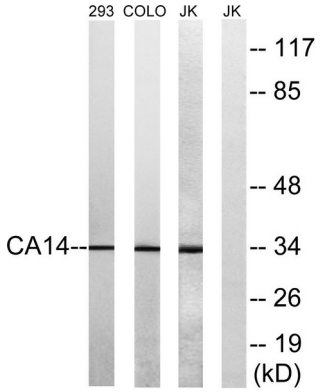
Carbonic anhydrases (CAs) are a large family of zinc metalloenzymes that catalyze the reversible hydration of carbon dioxide.

They participate in a variety of biological processes, including respiration, calcification, acid-base balance, bone resorption, and the formation of aqueous humor, cerebrospinal fluid, saliva, and gastric acid. They show extensive diversity in tissue distribution and in their subcellular localization. CA XIV 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. [provided by RefSeq, Jul 2008],catalytic activity:H(2)CO(3) = CO(2) + H(2)O.,cofactor:Zinc.,function:Reversible hydration of carbon dioxide.,similarity:Belongs to the alpha-carbonic anhydrase family.,tissue specificity: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.,

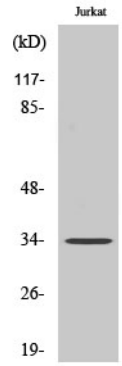
Research Area

Nitrogen metabolism;

Image Data



Western blot analysis of lysates from Jurkat, COLO, and 293 cells, using CA14 Antibody. The lane on the right is blocked with the synthesized peptide.



Western Blot analysis of various cells using CA XIV Polyclonal Antibody