

Product Name: CA VA Rabbit Polyclonal Antibody
Catalog #: APRab07770



Summary

Production Name	CA VA Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,ELISA
Reactivity	Human

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	CA5A
Alternative Names	CA5A; CA5; Carbonic anhydrase 5A; mitochondrial; Carbonate dehydratase VA; Carbonic anhydrase VA; CA-VA
Gene ID	763.0
SwissProt ID	P35218.The antiserum was produced against synthesized peptide derived from human CA5A. AA range:171-220

Application

Dilution Ratio	WB 1:500 - 1:2000. ELISA: 1:40000. Not yet tested in other applications.
Molecular Weight	35kD

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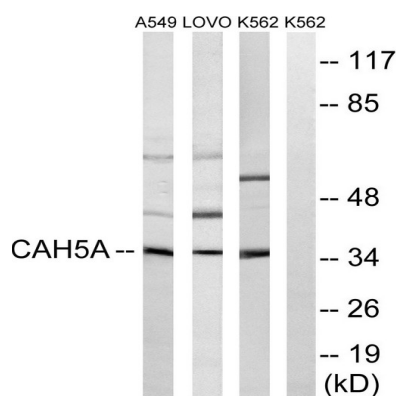
Background

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 VA is localized in the mitochondria and expressed primarily in the liver. It may play an important role in ureagenesis and gluconeogenesis. CA5A gene maps to chromosome 16q24.3 and an unprocessed pseudogene has been assigned to 16p12-p11.2. [provided by RefSeq, Jul 2008], catalytic activity: $\text{H}_2\text{CO}_3 = \text{CO}_2 + \text{H}_2\text{O}$, cofactor: Zinc, function: Reversible hydration of carbon dioxide, similarity: Belongs to the alpha-carbonic anhydrase family,

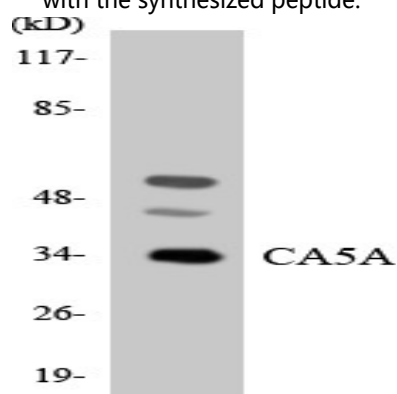
Research Area

Nitrogen metabolism;

Image Data

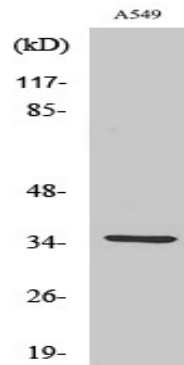


Western blot analysis of lysates from A549, LOVO, and K562 cells, using CA5A Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from K562 cells using CA5A antibody.

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Western Blot analysis of various cells using CA VA Polyclonal Antibody

Note

For research use only.