



CA XII rabbit pAb

Cat#: orb770423 (Manual)

For research use only. Not intended for diagnostic use.

Product Name CA XII rabbit pAb

Host species Rabbit

Applications WB;IHC;IF;ELISA

Species Cross-Reactivity Human; Mouse; Rat

Recommended dilutions IHC-p: 100-300. Western Blot: 1/500 - 1/2000. ELISA: 1/40000. Not yet

tested in other applications.

Immunogen The antiserum was produced against synthesized peptide derived from

human CA12. AA range:231-280

Specificity CA XII Polyclonal Antibody detects endogenous levels of CA XII protein.

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium

azide..

Storage Store at -20°C. Avoid repeated freeze-thaw cycles.

Protein Name Carbonic anhydrase 12

Gene Name CA12

Cellular localization Membrane; Single-pass type I membrane protein. Cell membrane.

Purification The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Clonality Polyclonal





Concentration 1 mg/ml

Observed band 45kD

Human Gene ID 771

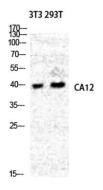
Human Swiss-Prot Number O43570

Alternative Names CA12; Carbonic anhydrase 12; Carbonate dehydratase XII; Carbonic

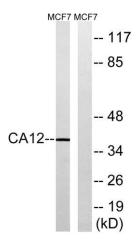
anhydrase XII; CA-XII; Tumor antigen HOM-RCC-3.1.3

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. This gene product is a type I membrane protein that is highly expressed in normal tissues, such as kidney, colon and pancreas, and has been found to be overexpressed in 10% of clear cell renal carcinomas. Three transcript variants encoding different isoforms have been identified for this gene. [provided by RefSeq, Jun 2014],



Western Blot analysis of NIH-3T3 293T cells using CA XII Polyclonal Antibody diluted at 1:2000

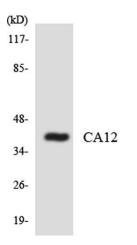


Western blot analysis of lysates from MCF-7 cells, using CA12 Antibody. The lane on the right is blocked with the synthesized peptide.

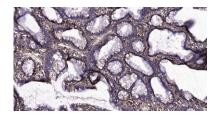




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Western blot analysis of the lysates from COLO205 cells using CA12 antibody.



Immunohistochemical analysis of paraffin-embedded human colon cancer. 1, Tris-EDTA,pH9.0 was used for antigen retrieval. 2 Antibody was diluted at 1:200(4° overnight.3,Secondary antibody was diluted at 1:200(room temperature, 45min).