

# Anti-CA12 Antibody

CATALOG NO.: A1865-100 100 µl.

**BACKGROUND DESCRIPTION:** 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.

**ALTERNATE NAMES:** CAXII, carbonic anhydrase 12, HsT18816, CA12, T18816

**ANTIBODY TYPE:** Polyclonal

**HOST/ISOTYPE:** Rabbit / Rabbit IgG.

**IMMUNOGEN:** Recombinant fusion protein containing a sequence corresponding to amino acids 25-301 of human CA12 (NP\_001209.1).

**PURIFICATION:** Affinity purification.

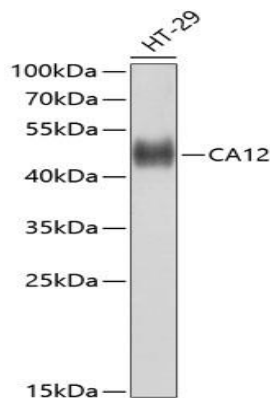
**FORM:** Liquid.

**FORMULATION:** Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

**SPECIES REACTIVITY:** Rat.  
 Mouse.  
 Human.

**STORAGE CONDITIONS:** Store at -20°C; Avoid freeze / thaw cycles.

**APPLICATIONS AND USAGE:** WB 1:200 - 1:2000.



Western blot analysis of extracts of HT-29 cells, using CA12 antibody at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Enhanced Kit. Exposure time: 30s.

## RELATED PRODUCTS:

- Anti-Carbonic Anhydrase IX Antibody (CA9/781)
- E. coli Recombinant Carbonic anhydrase (p1049)
- Human Recombinant Carbonic anhydrase 2 (6390)

**FOR RESEARCH USE ONLY! Not to be used on humans.**