

# Anti-Carbonic Anhydrase 2 Antibody

CATALOG NO.: A2007-100 (100 µl)

**BACKGROUND DESCRIPTION:** The protein encoded by this gene is one of several isozymes of carbonic anhydrase, which catalyzes reversible hydration of carbon dioxide. Defects in this enzyme are associated with osteopetrosis and renal tubular acidosis. Two transcript variants encoding different isoforms have been found for this gene.

**ALTERNATE NAMES:** Carbonic anhydrase 2; Carbonate dehydratase II; Carbonic anhydrase C; CAC; Carbonic anhydrase II; CA-II

**ANTIBODY TYPE:** Polyclonal

**HOST/ISOTYPE:** Rabbit / IgG

**IMMUNOGEN:** KLH-conjugated synthetic peptide targeting a sequence within the C-term region of human CA 2

**MOLECULAR WEIGHT:** 28 kDa

**PURIFICATION:** Affinity purified

**FORM:** Liquid

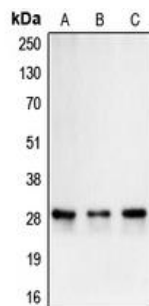
**FORMULATION:** In 0.42% Potassium phosphate; 0.87% NaCl; pH 7.3; 30% glycerol; and 0.01% sodium azide

**SPECIES REACTIVITY:** Human, Monkey, Rat

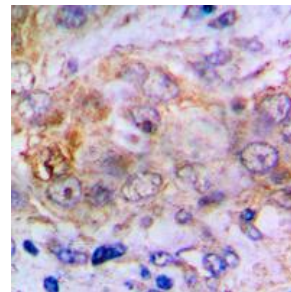
**STORAGE CONDITIONS:** Store at -20°C. Avoid freeze / thaw cycles

**APPLICATIONS AND USAGE:** WB 1:500 - 1:1000, IHC 1:100 - 1:200

**Note:** This information is only intended as a guide. The optimal dilutions must be determined by the user



Western blot analysis of Carbonic Anhydrase 2 expression in Caco-2 (A); K562 (B); Caki-1 (C) whole cell lysates.



Immunohistochemical analysis of Carbonic Anhydrase 2 staining in human lung cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0), then incubated with the antibody at RT and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with hematoxylin and mounted with DPX.

## RELATED PRODUCTS:

Anti-CA13 Antibody (A1404)

Anti-c-Fos Antibody (A1858)

Anti-CA12 Antibody (A1865)

Anti-Carbonic Anhydrase IX Antibody (CA9/781) (A1463)

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