

Carbonic anhydrase 2/CA2 Ab

[Images\(3\)](#)

Cat.#: DF6413	Concn.: ~1mg/ml	Mol.Wt.: 29kDa
Size:	Source: Rabbit	Clonality: Polyclonal

Application: WB 1:500-1:2000, IHC 1:50-1:200
*The optimal dilutions should be determined by the end user.

Reactivity: Human, Mouse, Rat

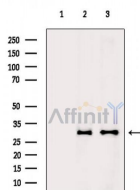
Storage: Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at -20 °C. Stable for 12 months from date of receipt.

Purification: The antiserum was purified by peptide affinity chromatography using SulfoLink™ Coupling Resin (Thermo Fisher Scientific).

Immunogen: A synthesized peptide derived from human Carbonic anhydrase 2/CA2, corresponding to a region within C-terminal amino acids.

Uniprot: P00918

Description: Carbonic anhydrases (CA) are a family of ancient zinc metalloenzymes found in almost all living organisms. All CA can be divided into 3 distinct classes (α, β, and γ) that evolved independently and have no significant homology in sequence and overall folding. All functional CA catalyze the reversible hydration of CO₂ into HCO₃⁻ and H⁺ and contain a zinc atom in the active sites essential for catalysis. There are many isoforms of CA in mammals and they all belong to the α class (1,2). CA2 is a cytosolic member of the α class. It is the most widely distributed isoform among the mammalian CAs. Defects in CA2 are associated with osteopetrosis and renal tubular acidosis (3-5).



Western blot analysis of extracts from various samples, using Carbonic anhydrase 2/CA2 Ab.

Lane 1: Rat heart, blocked with antigen-specific peptides,
Lane 2: Rat heart,
Lane 3: Mouse lung.

IMPORTANT: For western blot, incubate membrane with diluted primary Ab in 5% w/v milk, 1X TBS, 0.1% Tween@20 at 4°C with gentle shaking, overnight.

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