

Carbonic anhydrase 2/CA2 Ab

Images(3)

Cat.#: DF6413 Size:	Concn.: ~1mg/ml Source: Rabbit	Mol.Wt.: 29kDa 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 (?, ?, and ?) 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 ? class (1,2). CA2 is a cytosolic member of the ? 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.

<code>IMPORTANT:</code> 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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