Human Carbonic Anhydrase XIII/CA13 Biotinylated Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: BAF2194

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Carbonic Anhydrase XIII/CA13 in Western blots. In Western blots, approximately 10% cross-reactivity with recombinant human (rh) CA1, rhCA2, and rhCA3 is observed and less than 5% cross-reactivity with rhCA4, rhCA8, rhCA9, rhCA10, rhCA12, and rhCA14 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human Carbonic Anhydrase XIII/CA13 Ser2-His262 Accession # Q8N1Q1
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.

APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	Recombinant Human Carbonic Anhydrase XIII (Catalog # 2194-CA)

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Carbonic Anhydrase (CA) catalyzes the reversible reaction of $CO_2 + H_2O = HCO_3^- + H^+$, which is fundamental to many processes such as respiration, renal tubular acidification and bone resorption (1). Topics in a CA meeting (6th International Conference on the CAs, June 20-25, 2003, Slovakia) ranged from the use of CAs as markers for tumor and hypoxia in the clinic, as a nutritional supplement in milk, and as a tool for CO_2 removal and mosquito control in industry. CA13 is a cytosolic enzyme with a unique and widespread distribution pattern as compared to the other cytosolic CAs, indicating that it may play important physiological roles in several organs (2).

References:

1. Hewett-Emmett, D. and R.E. Tashian (1996) Mol. Phylogenet. Evol. **5**:50.
2. Lehtonen, J. *et al*. (2003) J. Biol. Chem. **279**: 2719.

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