



# *Biotinylated Anti-human Carbonic Anhydrase II Antibody*

## ORDERING INFORMATION

**Catalog Number:** BAF2184

**Lot Number:** UZU01

**Size:** 50 µg

**Formulation:** 0.2 µm filtered solution in PBS with BSA

**Storage:** -20° C

**Reconstitution:** sterile 0.1% BSA in TBS

**Specificity:** human Carbonic Anhydrase II

**Immunogen:** *E. coli*-derived rhCA2 (aa 2 - 260)

**Ig Type:** sheep IgG

**Application:** Western blot

## ***Preparation***

Produced in sheep immunized with purified, *E. coli*-derived, recombinant human Carbonic Anhydrase II (rhCA2; aa 2 - 260). Human Carbonic Anhydrase II specific IgG was purified by human Carbonic Anhydrase II affinity chromatography and then biotinylated.

## ***Formulation***

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) containing 50 µg of bovine serum albumin (BSA) per 1 µg of antibody.

## ***Reconstitution***

Reconstitute with sterile Tris-buffered saline pH 7.3 (20 mM Trizma base, 150 mM NaCl) containing 0.1% BSA. If 1 mL of buffer is used, the antibody concentration will be 50 µg/mL.

## ***Storage***

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C **in a manual defrost freezer** for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

## ***Specificity***

This antibody has been selected for use as a detection antibody in human Carbonic Anhydrase II western blots.

## ***Application***

**Western Blot** - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect human Carbonic Anhydrase II. The detection limit for rhCA2 is approximately 2 ng/lane under non-reducing and reducing conditions. In this format, this antibody shows approximately 10% cross-reactivity with rhCA1, rhCA3, rhCA13 and less than 5% cross-reactivity with rhCA4, -8, -9, -10, -12 and -14.

**Optimal dilutions should be determined by each laboratory for each application.**