



## ***Anti-human Carbonic Anhydrase XIV Antibody***

### **ORDERING INFORMATION**

**Catalog Number:** AF2195

**Lot Number:** VNU01

**Size:** 100 µg

**Formulation:** 0.2 µm filtered solution in PBS with 5% trehalose

**Storage:** -20° C

**Reconstitution:** sterile PBS

**Specificity:** human Carbonic Anhydrase XIV

**Immunogen:** NS0-derived rhCA14 (aa 19 - 290)

**Ig Type:** goat IgG

**Applications:** Western blot  
Immunoprecipitation  
Direct ELISA

### ***Preparation***

Produced in goats immunized with purified, NS0-derived, recombinant human Carbonic Anhydrase XIV (rhCA14; aa 19 - 290). Human CA14 specific IgG was purified by human CA14 affinity chromatography.

### ***Formulation***

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) with 5% trehalose.

### ***Reconstitution***

Reconstitute with sterile PBS. If 0.5 mL of PBS is used, the antibody concentration will be 0.2 mg/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 its ability to recognize human CA14 in direct ELISAs and western blots. In these formats, this antibody shows approximately 20% cross-reactivity with rmCA14 and less than 1% cross-reactivity with rhCA1, -2, -3, -4, -8, -9, -10, -12 and -13.

### ***Applications***

**Western blot** - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect human CA14. The detection limit for rhCA14 is approximately 2 ng/lane under non-reducing and reducing conditions.

**Immunoprecipitation** - This antibody has been used to immunoprecipitate rhCA14 from conditioned media of transfected NS0 cells.

**Direct ELISA** - This antibody can be used at 0.5 - 1.0 µg/mL with the appropriate secondary reagents to detect human CA14. The detection limit for rhCA14 is approximately 0.3 ng/well.

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