# Anti-CARBONIC ANHYDRASE II (RABBIT) Antibody - 100-4157

**Code:** 100-4157 **Size:** 2 mL

**Product Description:** Anti-CARBONIC ANHYDRASE II (RABBIT) Antibody - 100-4157

**Concentration:** 85 mg/mL by Refractometry

**PhysicalState:** Lyophilized

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| **Label** | Unconjugated |
| **Host** | Rabbit |
| **Gene Name** | CA2 |
| **Species Reactivity** | bovine |
| **Buffer** | 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 |
| **Reconstitution Volume** | 2.0 mL |
| **Reconstitution Buffer** | Restore with deionized water (or equivalent) |
| **Stabilizer** | None |
| **Preservative** | 0.01% (w/v) Sodium Azide |
| **Storage Condition** | Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. |
| **Synonyms** | rabbit anti-Carbonic Anhydrase II Antibody, Carbonate dehydratase II antibody, Carbonic anhydrase 2 antibody, Carbonic anhydrase B antibody, Carbonic anhydrase C antibody, Carbonic anhydrase II antibody, Carbonic dehydratase antibody |
| **Application Note** | This product has been assayed against 1.0 ug of Carbonic Anhydrase II [Bovine Erythrocytes] in a standard ELISA using Peroxidase conjugated Affinity Purified anti-Rabbit IgG [H&L] (Goat) code #611-1302 and (ABTS (2,2'-azino-bis-[3-ethylbenthiazoline-6-sulfonic acid]) code # ABTS-100 as a substrate for 30 minutes at room temperature. A working dilution of 1:3,000 to 1:14,000 of the reconstitution concentration is suggested for this product. |
| **Background** | Carbonic Anhydrase 2 is essential for bone resorption and osteoclast differentiation. It reverses hydration of carbon dioxide and can hydrate cyanamide to urea. It is involved in the regulation of fluid secretion into the anterior chamber of the eye. Carbonic Anhydrase II contributes to intracellular pH regulation in the duodenal upper villous epithelium during proton-coupled peptide absorption. It stimulates the chloride-bicarbonate exchange activity of SLC26A6. it is used for target of drugs used in treatments against glaucoma disorder and breast cancer. |
| **Purity And Specificity** | This product was prepared from monospecific antiserum by a delipidation and defibrination. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-rabbit serum, purified and partially purified Carbonic Anhydrase II [Bovine Erythrocytes]. Cross reactivity against Carbonic Anhydrase II from other tissues and species may occur but have not been specifically determined. |
| **Assay Dilutions** | User Optimized |
| **ELISA** | 1:20,000 - 1:100,000 |
| **Western Blot** | 1:2,000 - 1:10,000 |
| **Other Assays** | User Optimized |
| **Expiration** | Expiration date is one (1) year from date of opening. |
| **Immunogen** | Carbonic Anhydrase II [Bovine Erythrocytes] |

**Related Products**

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| 200-301-268 | Anti-AKT pS473 (MOUSE) Monoclonal Antibody - 200-301-268 |
| 610-4302 | Anti-MOUSE IgG (H&L) (RABBIT) Antibody Peroxidase Conjugated - 610-4302 |

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| 611-1302 | Anti-RABBIT IgG (H&L) (GOAT) Antibody Peroxidase Conjugated - 611-1302 |
| B304 | NORMAL GOAT SERUM (NGS) - B304 |

**Related Links**

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| | UniProtKB - P00921 |
| http://www.uniprot.org/uniprot/P00921 | |
| NCBI - P00921.3 | http://www.ncbi.nlm.nih.gov/protein/P00921.3 |
| | GeneID - 280740 |

## Disclaimer