
Product Name: KD-Validated Carbonic Anhydrase II Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01587**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 29.2kDa

Antigen Information

Gene Name	CA2 CA2; Carbonic Anhydrase 2; CA-II; Carbonic Anhydrase II; CAII; Carbonate Dehydratase II;
Alternative Names	Cyanamide Hydratase CA2; Carbonic Anhydrase C; EC 4.2.1.1; Car2; CAC; Epididymis Secretory Protein Li 282; Epididymis Luminal Protein 76; Carbonic Anhydrase B; Carbonic Dehydratase; EC 4.2.1.69; HEL-S-282; HEL-76; CAR2
Gene ID	760.0
SwissProt ID	P00918
Immunogen	A synthesized peptide derived from human Carbonic anhydrase 2

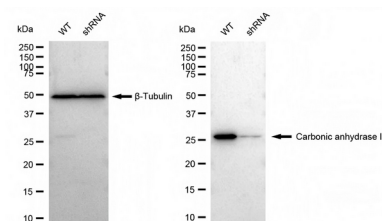
Background

The protein encoded by this gene is one of several isozymes of carbonic anhydrase, which catalyzes reversible hydration of carbon dioxide. Defects in this enzyme are associated with osteopetrosis and renal tubular acidosis. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2014]

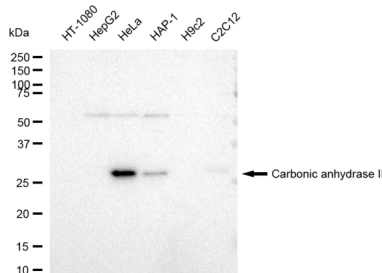
Research Area

Cardiovascular, Cell Biology

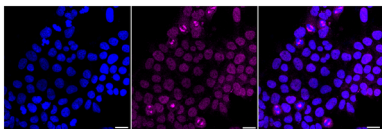
Image Data



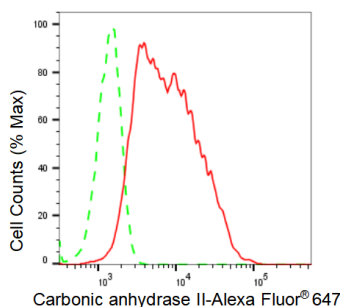
Western blotting analysis using Carbonic anhydrase II antibody (KVA01587). Carbonic anhydrase II expression in wild type (WT) and Carbonic anhydrase II shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with Carbonic anhydrase II antibody (KVA01587, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using Carbonic anhydrase II antibody (KVA01587). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Carbonic anhydrase II antibody (KVA01587, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HeLa cells with Carbonic anhydrase II antibody (KVA01587, 1:1,000). Nuclei were stained blue with DAPI; Carbonic anhydrase II was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.



Flow cytometric analysis of Carbonic anhydrase II expression in HeLa cells using Carbonic anhydrase II antibody (KVA01587, 1:2,000). Green, isotype control; red, Carbonic anhydrase II.