

Rabbit anti-Human, mouse CA2 Polyclonal Antibody | anti-CA2 antibody

CA2 Antibody (N-term)

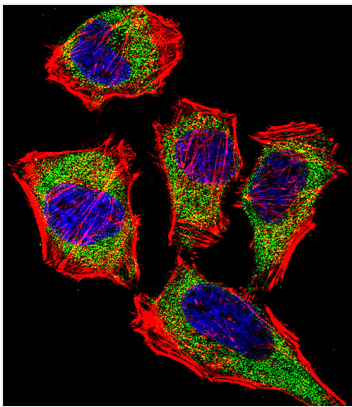
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA287391	Rabbit	Human, mouse	Western Blot, ELISA, Immunofluorescence

PRODUCT SYNONYMS

CA2; Polyclonal Antibody; CA2 Antibody (N-term); Carbonic anhydrase 2; Carbonate dehydratase II; Carbonic anhydrase C; CAC; Carbonic anhydrase II; CA-II; anti-CA2 antibody

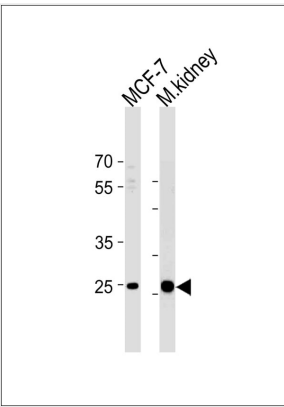
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, mouse
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This CA2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 54-83 amino acids from the N-terminal region of human CA2.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Concentration	Vial Concentration: 2 (varies by lot)
Sequence Positions	54-83
Sequence Length	260
Applicable Applications for anti-CA2 antibody	WB (Western Blot), ELISA, IF (Immunofluorescence)
Antigen Type	Synthetic Peptide
Crown Antibody	Yes
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



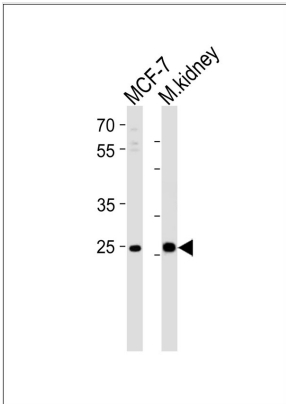
IF (Immunofluorescence)

Fluorescent confocal image of HeLa cell stained with CA2 Antibody (N-term). HeLa cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with CA2 primary antibody (1:25, 1 h at 37 degree). For secondary antibody, Alexa Fluor 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37 degree). Cytoplasmic actin was counterstained with Alexa Fluor 555 (red) conjugated Phalloidin (7units/ml, 1 h at 37 degree). Nuclei were counterstained with DAPI (blue) (10 ug/ml, 10 min). CA2 immunoreactivity is localized to Cytoplasm significantly.



WB (Western Blot)

CA2 Antibody (N-term) western blot analysis in MCF-7 cell line and mouse kidney tissue lysates (35ug/lane). This demonstrates the CA2 antibody detected the CA2 protein (arrow).



WB (Western Blot)

Western blot analysis of lysates from MCF-7 cell line and mouse kidney tissue lysate (from left to right), using CA2 Antibody (N-term). AAA287391 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35ug per lane.

ADDITIONAL INFORMATION

Related Product Information for anti-CA2 antibody	CA2 is one of several (at least 7) isozymes of carbonic anhydrase. Carbonic anhydrase catalyzes reversible hydration of carbon dioxide. Defects in this enzyme are associated with osteopetrosis and renal tubular acidosis.
Product Categories/Family for anti-CA2 antibody	Crown Antibodies; Cardiovascular; Cell Biology; Metabolism
References	Sultana, R., et al. Antioxid. Redox Signal. 12(3):327-336(2010) Fisher, S.Z., et al. Biochemistry 49(3):415-421(2010) Avvaru, B.S., et al. Biochemistry 49(2):249-251(2010) Maupin, C.M., et al. Biochemistry 48(33):7996-8005(2009) Avvaru, B.S., et al. Biochemistry 48(31):7365-7372(2009)

NCBI AND UNIPROT INFORMATION

NCBI GI #	4557395
NCBI GeneID	760

NCBI Accession #	NP_000058.1
NCBI GenBank Nucleotide #	NM_000067.2
UniProt Accession #	P00918 ; Q6FI12 ; Q96ET9 ; B2R7G8
Molecular Weight	29246
NCBI Official Full Name	carbonic anhydrase 2 isoform 1
NCBI Official Synonym Full Names	carbonic anhydrase II
NCBI Official Symbol	CA2
NCBI Official Synonym Symbols	CAC; CAII; Car2; CA-II; HEL-76
NCBI Protein Information	carbonic anhydrase 2
UniProt Protein Name	Carbonic anhydrase 2
UniProt Gene Name	CA2
UniProt Synonym Gene Names	CAC; CA-II
UniProt Entry Name	CAH2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/ca2-antibody-western-blot-immunofluorescence-elisa/287391>