

Mouse anti-Human CA1 Monoclonal Antibody | anti-CA1 antibody

CA1 (Carbonic Anhydrase 1, Carbonic Anhydrase I, CA-I, Carbonate Dehydratase I, Carbonic Anhydrase B, CAB) (PE)

CATALOG # AAA25628	HOST Mouse	REACTIVITY Human	APPLICATIONS ELISA, Immunoprecipitation, Western Blot
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PRODUCT SYNONYMS

CA1; Monoclonal Antibody; CA1 (Carbonic Anhydrase 1; Carbonic Anhydrase I; CA-I; Carbonate Dehydratase I; Carbonic Anhydrase B; CAB) (PE); anti-CA1 antibody

PRODUCT SPECIFICATIONS

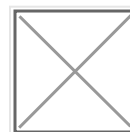
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	M1
Specificity	Recognizes human CA1.
Purity/Purification	Purified
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with R-Phycoerythrin (PE).
Applicable Applications for anti-CA1 antibody	ELISA, IP (Immunoprecipitation), WB (Western Blot)
Application Notes	Applications are based on unconjugated antibody.
Immunogen	Full length recombinant protein corresponding to aa1-261 from human CA1 (AAH27890) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	MASPDWGYDDKNGPEQWSKLYPIANGNNQSPVDIKTSETKHDTSLKPISVSYNPATAKEIINVGHFSFHVNFEDNDNRSVLKGGPFSDSYRLFQFHFHWG
Conjugate	PE
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo

IMAGES



WB (Western Blot)

CA1 monoclonal antibody, Western Blot analysis of CA1 expression in HeLa.



Application Data

Detection limit for recombinant GST tagged CA1 is ~0.03ng/ml as a capture antibody.

**IP (Immunoprecipitation)**

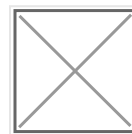
Immunoprecipitation of CA1 transfected lysate using 124177 and Protein A Magnetic Bead and immunoblotted with CA1 rabbit polyclonal antibody.

**WB (Western Blot)**

Western Blot analysis of CA1 expression in transfected 293T cell line using 124177. Lane 1: CA1 transfected lysate (28.9kD). Lane 2: Non-transfected lysate.

**WB (Western Blot)**

Western Blot analysis of CA1 expression in human spleen using 124177

**WB (Western Blot)**

Western Blot detection against Immunogen (54.45kD), using 124177.

ADDITIONAL INFORMATION

Related Product Information for anti-CA1 antibody

Carbonic anhydrases (CAs) are a large family of zinc metalloenzymes that catalyze the reversible hydration of carbon dioxide. They participate in a variety of biological processes, including respiration, calcification, acid-base balance, bone resorption, and the formation of aqueous humor, cerebrospinal fluid, saliva, and gastric acid. They show extensive diversity in tissue distribution and in their subcellular localization. CA1 is closely linked to CA2 and CA3 genes on chromosome 8, and it is a cytosolic protein which is found at the highest level in erythrocytes.

Product Categories/Family for anti-CA1 antibody

[Antibodies](#); [Enzymes](#)

NCBI AND UNIPROT INFORMATION

NCBI GI #	20380765
NCBI GeneID	759
Molecular Weight	28,870 Da
NCBI Official Full Name	Homo sapiens carbonic anhydrase I, mRNA
NCBI Official Synonym Full Names	carbonic anhydrase 1
NCBI Official Symbol	CA1
NCBI Official Synonym Symbols	CAB; CA-I; Car1; HEL-S-11
NCBI Protein Information	carbonic anhydrase 1

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/monoclonal/ca1-antibody-clone-m1-immunoprecipitation-western-blot-elisa/25628>