

Rabbit anti-Mouse Carbonic Anhydrase 8/CA8 Polyclonal Antibody | anti-CA8 antibody

Anti-Carbonic Anhydrase 8/CA8 Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA257225	Rabbit	Mouse	Immunoprecipitation, Immunohistochemistry, ELISA, Western Blot

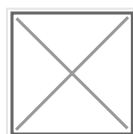
PRODUCT SYNONYMS

Carbonic Anhydrase 8/CA8; Polyclonal Antibody; Anti-Carbonic Anhydrase 8/CA8 Antibody; Rabbit Polyclonal; Carbonic Anhydrase VIII/CA8 Antibody; Rabbit PAb; Antigen Affinity Purified; carbonic anhydrase VIII; Anti-AW546993 Antibody; Anti-Ca8 Antibody; Anti-Cals Antibody; Anti-Cals1 Antibody; Anti-Car8 Antibody; Anti-Carp Antibody; Anti-RP23-180H12.1 Antibody; Anti-wdl Antibody; anti-CA8 antibody

PRODUCT SPECIFICATIONS

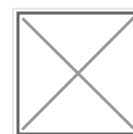
Host	Rabbit
Reactivity	Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Mouse Carbonic Anhydrase VIII/CA8
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-CA8 antibody	IP (Immunoprecipitation), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Immunogen	Recombinant Mouse Carbonic Anhydrase VIII/CA8 protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Mouse Carbonic Anhydrase VIII/CA8. Carbonic Anhydrase VIII/CA8 specific IgG was purified by Mouse Carbonic Anhydrase VIII/CA8 affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



WB (Western Blot)

Anti-CA8 rabbit polyclonal antibody at 1:500 dilution. Lane A: A549 Whole Cell Lysate. Lysates/proteins at 30 ug per lane. Secondary: Goat Anti-Rabbit IgG H&L (Dylight 800) at 1/10000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 33 kDa. Observed band size: 37 kDa. (We are unsure as to the identity of these extra bands.)



IP (Immunoprecipitation)

Mouse CA8 was immunoprecipitated using: Lane A: 0.5 mg A549 Whole Cell Lysate. 0.5 uL anti-Mouse CA8 rabbit polyclonal antibody and 15 ul of 50 % Protein G agarose. Primary antibody: Anti-Mouse CA8 rabbit polyclonal antibody, at 1:1000 dilution. Secondary antibody: Dylight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 33 kDa. Observed band size: 37 kDa.



IHC (Immunohistochemistry)

Immunochemical staining of mouse CA8 in mouse brain with rabbit polyclonal antibody at 1:25000 dilution, formalin-fixed paraffin embedded sections.

ADDITIONAL INFORMATION

Related Product Information for anti-CA8 antibody	The carbonic anhydrases (or carbonate dehydratases) are classified as metalloenzyme for its zinc ion prosthetic group and form a family of enzymes that catalyze the rapid interconversion of carbon dioxide and water to bicarbonate and protons, a reversible reaction that takes part in maintaining acid-base balance in blood and other tissues. The carbonic anhydrase (CA) family consists of at least 11 enzymatically active members and a few inactive homologous proteins. Carbonic anhydrase protein (CA) VIII, which is a member of the CA gene family, has been shown to have no catalytic CA activity and its biological function is still unknown. Increased expression of CA-RP VIII was observed in 78% of colorectal carcinomas. It suggested that CA-RP VIII plays a role in the process of invasion in colorectal cancer.
References	Lehtonen J, et al. (2004) Characterization of CA XIII, a Novel Member of the Carbonic Anhydrase Isozyme Family. The Journal of Biological Chemistry. 279: 2719-27.Lindskog S. (1997) Structure and mechanism of carbonic anhydrase. Pharmacology & Therapeutics. 74(1):1-20.Miyaji E, et al. (2003) Overexpression of carbonic anhydrase-related protein VIII in human colorectal cancer. The Journal of Pathology. 201(1): 37-45.

NCBI AND UNIPROT INFORMATION

NCBI GI #	85362731
NCBI GeneID	12319
NCBI Accession #	NP_031618.2
NCBI GenBank Nucleotide #	NM_007592.3
UniProt Accession #	P28651; Q8CF58; Q91XF6
Molecular Weight	33,081 Da
NCBI Official Full Name	carbonic anhydrase-related protein
NCBI Official Synonym Full Names	carbonic anhydrase 8
NCBI Official Symbol	Car8
NCBI Official Synonym Symbols	Ca8; wdl; Cals; Carp; Cals1; AW546993
NCBI Protein Information	carbonic anhydrase-related protein
UniProt Protein Name	Carbonic anhydrase-related protein
UniProt Gene Name	Ca8
UniProt Synonym Gene Names	Cals; Cals1; Car8; Carp; CARP; CA-VIII

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.