

Rabbit CA3 Polyclonal Antibody | anti-CA3 antibody

CA3 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326120	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

CA3; Polyclonal Antibody; CA3 Antibody; CA III; CA-III; Ca3; CAH3_HUMAN; CAIII; Car3; Carbonate dehydratase III; Carbonic anhydrase 3; Carbonic anhydrase III; Carbonic anhydrase III muscle specific; EC 4.2.1.1; Epididymis secretory sperm binding protein Li 167mP; HEL S 167mP; anti-CA3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	CA3 antibody detects endogenous levels of total CA3
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	260
Applicable Applications for anti-CA3 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human CA3
Subcellular Location	Cytoplasm.
Tissue Specificity	Muscle specific.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of Hela cell lysate, using CA3 Antibody. The lane on the left is treated with the antigen-specific peptide.



IF (Immunofluorescence)

AAA326120 staining HuvEc cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



IHC (Immunohistochemistry)

AAA326120 at 1/100 staining Mouse muscle tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-CA3 antibody	Description: Carbonic anhydrase III (CAIII) is a member of a multigene family (at least six separate genes are known) that encodes carbonic anhydrase isozymes. These carbonic anhydrases are a class of metalloenzymes that catalyze the reversible hydration of carbon dioxide and are differentially expressed in a number of cell types. The expression of the CA3 gene is strictly tissue specific and present at high levels in skeletal muscle and much lower levels in cardiac and smooth muscle. A proportion of carriers of Duchenne muscle dystrophy have a higher CA3 level than normal. The gene spans 10.3 kb and contains seven exons and six introns. [provided by RefSeq, Oct 2008] Function: Reversible hydration of carbon dioxide. Post-translational Modifications: S-glutathionylated in hepatocytes under oxidative stress. Similarity: Belongs to the alpha-carbonic anhydrase family.
--	--

NCBI AND UNIPROT INFORMATION

NCBI GI #	4885099
NCBI GeneID	761
NCBI Accession #	NP_005172.1
NCBI GenBank Nucleotide #	NM_005181.3
UniProt Accession #	P07451; O60842; B2R867; B3KUC8
Molecular Weight	Observed: 30 kDa Predicted: 30 kDa
NCBI Official Full Name	carbonic anhydrase 3
NCBI Official Synonym Full Names	carbonic anhydrase 3
NCBI Official Symbol	CA3
NCBI Official Synonym Symbols	Car3; CAIII
NCBI Protein Information	carbonic anhydrase 3
UniProt Protein Name	Carbonic anhydrase 3
UniProt Gene Name	CA3
UniProt Synonym Gene Names	CA-III

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/ca3-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/326120>