

## ARG57300 anti-CA3 / Carbonic Anhydrase 3 antibody

Package: 100 µl  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes CA3 / Carbonic Anhydrase 3
Tested Reactivity	Ms, Rat
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	CA3 / Carbonic Anhydrase 3
Species	Human
Immunogen	Recombinant Protein of Human CA3 / Carbonic Anhydrase 3.
Conjugation	Un-conjugated
Alternate Names	CAIII; EC 4.2.1.1; Car3; CA-III; Carbonate dehydratase III; Carbonic anhydrase 3; Carbonic anhydrase III

### Application Instructions

Application table	Application	Dilution
	IHC-P	1:50 - 1:200
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Mouse skeletal muscle	

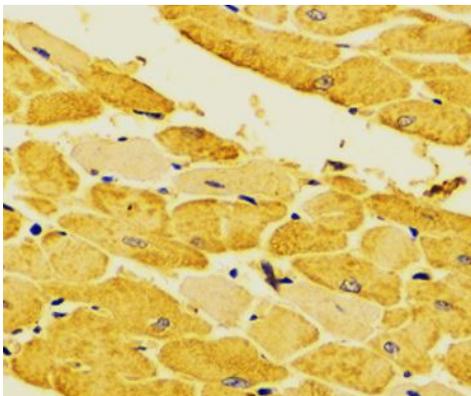
### Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

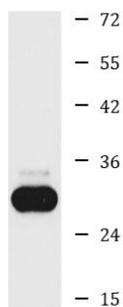
Gene Symbol	CA3
Gene Full Name	carbonic anhydrase III
Background	Carbonic anhydrase III (CAIII) is a member of a multigene family (at least six separate genes are known) that encodes carbonic anhydrase isozymes. These carbonic anhydrases are a class of metalloenzymes that catalyze the reversible hydration 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. [UniProt]
Calculated Mw	30 kDa
PTM	S-glutathionylated in hepatocytes under oxidative stress.

## Images



ARG57300 anti-CA3 / Carbonic Anhydrase 3 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat heart stained with ARG57300 anti-CA3 / Carbonic Anhydrase 3 antibody at 1:100 dilution.



Mouse skeletal muscle

ARG57300 anti-CA3 / Carbonic Anhydrase 3 antibody WB image

Western blot: Mouse skeletal muscle lysate stained with ARG57300 anti-CA3 / Carbonic Anhydrase 3 antibody.