

Carbonic anhydrase 3 Rabbit pAb

Catalog # AP99883

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	P07451
Other Accession	P07451
Host	Rabbit
Clonality	Polyclonal
Calculated MW	29557
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Carbonic anhydrase 3
Epitope Specificity	21-120/260
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the alpha-carbonic anhydrase family.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Carbonic anhydrase is a family of metalloenzymes (enzymes that contain one or more metal atoms as a functional component of the enzyme) that catalyze the rapid interconversion of carbon dioxide and water into carbonic acid and protons. It also converts bicarbonate in carbon dioxide and water. This reaction occurs spontaneously in aqueous solution, but does so slowly. Carbonic anhydrase can greatly increase the rate of the reaction, with typical catalytic rates of the different forms of this enzyme ranging between 104 and 106 reactions per second. The active site of most carbonic anhydrases contains a zinc ion.

Additional Information

Gene ID	761
Other Names	CAIII; Car3; Ca3; Car-3; CAH3_HUMAN; Carbonate dehydratase III; Carbonic anhydrase III (CA-III); 4.2.1.1; CAH3_MOUSE; CAH3_RAT; carbonic anhydrase 3; carbonic anhydrase III, muscle specific; carbonic anhydrase III
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	CA3 {ECO:0000303 PubMed:9651514, ECO:0000312 HGNC:HGNC:1374}
Function	Reversible hydration of carbon dioxide.
Cellular Location	Cytoplasm.
Tissue Location	Muscle specific.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.