10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Carbonic Anhydrase 5A Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51029

Specification

Carbonic Anhydrase 5A Antibody - Product Information

Application	**WB, IP, E**
Primary Accession	P35218
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**35 KDa**

Carbonic Anhydrase 5A Antibody - Additional Information

Gene ID 763

Other Names
Carbonic anhydrase 5A, mitochondrial, Carbonate dehydratase VA, Carbonic anhydrase VA, CA-VA, CA5A, CA5

Target/Specificity
KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Carbonic Anhydrase 5A. The exact sequence is proprietary.

Dilution
WB~~1:1000
IP~~N/A
E~~N/A

Format
0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

Storage
Store at -20 °C.Stable for 12 months from date of receipt

Carbonic Anhydrase 5A Antibody - Protein Information

Name CA5A (HGNC:1377)

Synonyms CA5

Function
Mitochondrial carbonic anhydrase that catalyzes the reversible conversion of carbon dioxide to bicarbonate/HCO3 (PubMed:24530203, PubMed:8356065). Mitochondria are impermeable to HCO3, and thus this intramitochondrial carbonic anhydrase is pivotal in providing HCO3 for multiple mitochondrial

enzymes that catalyze the formation of essential metabolites of intermediary metabolism in the urea and Krebs cycles (PubMed:24530203).

Cellular Location
Mitochondrion.

Carbonic Anhydrase 5A Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Carbonic Anhydrase 5A Antibody - Images

Carbonic Anhydrase 5A Antibody - Background

Reversible hydration of carbon dioxide. Low activity.

Carbonic Anhydrase 5A Antibody - References

Nagao Y.,et al.Proc. Natl. Acad. Sci. U.S.A. 90:7623-7627(1993).
Nagao Y.,et al.Genomics 28:477-484(1995).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
Temperini C.,et al.Chemistry 12:7057-7066(2006).
Temperini C.,et al.J. Med. Chem. 49:3019-3027(2006).