

Product datasheet for TA327000S

OriGene Technologies, Inc.

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Carbonic Anhydrase III (CA3) Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: ELISA, IHC, WB

Recommended Dilution: WB,1:500 - 1:1000

IHC-P,1:50 - 1:200

ELISA,Recommended starting concentration is 1 μg/mL. Please optimize the concentration

based on your specific assay requirements.

Reactivity: Mouse, Rat

Host: Rabbit

Isotype: IgG

Clonality: Polyclonal

Formulation: Store at -20C or -80C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50%

glycerol, pH7.3

Concentration: lot specific

Purification: Affinity purification

Conjugation: Unconjugated

Storage: Store at -20°C. Avoid freeze / thaw cycles.

Stability: Stable for 12 months from date of receipt.

Predicted Protein Size: 30kDa

Gene Name: carbonic anhydrase 3

Database Link: NP 005172

Entrez Gene 761 Human

P07451



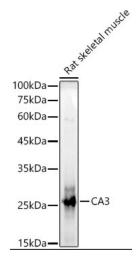
Background:

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.

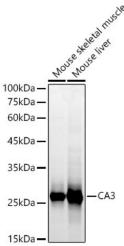
Synonyms: CAIII; Car3

Protein Families: Druggable Genome
Protein Pathways: Nitrogen metabolism

Product images:



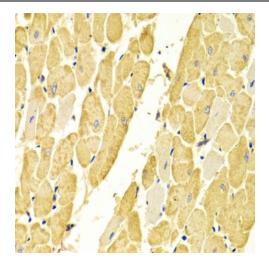
Western blot analysis of lysates from Rat skeletal muscle



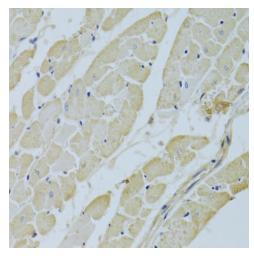
Western blot analysis of various lysates using CA3 Rabbit pAb ([TA327000]) at 1:1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020).

Exposure time: 10s.





Immunohistochemistry analysis of paraffinembedded Rat heart using CA3 Rabbit pAb ([TA327000]) at dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.



Immunohistochemistry analysis of paraffinembedded Rat heart using CA3 Rabbit pAb ([TA327000]) at dilution of 1:200 (40x lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.