

Product datasheet for **TA322661S**

Carbonic Anhydrase III (CA3) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 1000-5000 WB positive control: Human liver tissue, Mouse skeletal muscle tissue and Rat skeletal muscle tissue lysates IHC: 100-200 Positive control: Human colorectal cancer Predicted cell location: Cytoplasm
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Fusion protein corresponding to N terminal 260 amino acids of Human Carbonic anhydrase 3
Formulation:	PBS pH7.3, 0.05% NaN ₃ , 50% glycerol
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	30 kDa
Gene Name:	carbonic anhydrase 3
Database Link:	NP_005172 Entrez Gene 761 Human P07451



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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:

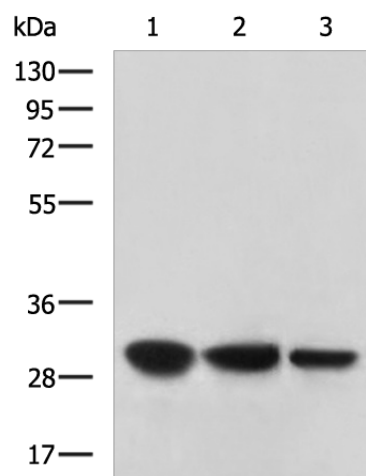
CAIII; Car3

Protein Families:

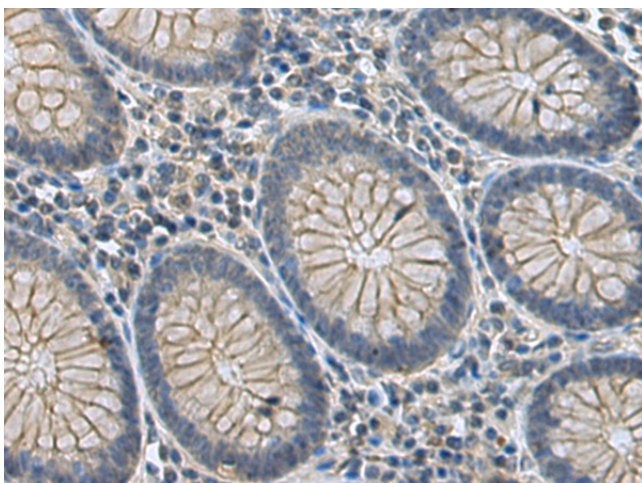
Druggable Genome

Protein Pathways:

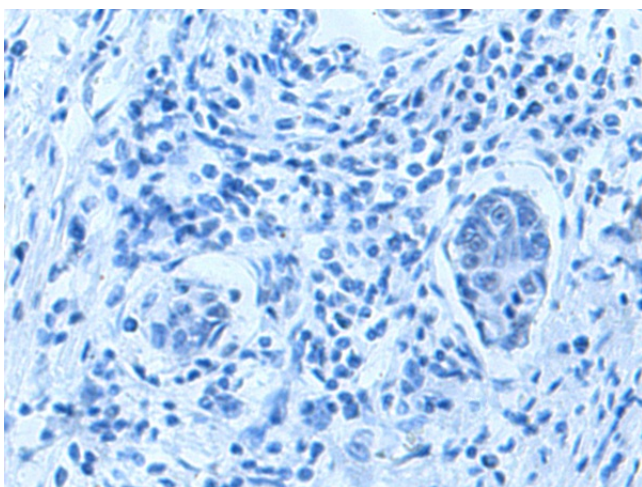
Nitrogen metabolism

Product images:


Gel: 8%SDS-PAGE
 Lysate: 40 µg
 Lane 1-3: Human liver tissue
 Mouse skeletal muscle tissue and Rat skeletal muscle tissue lysates
 Primary antibody: [TA322661] (CA3 Antibody) at dilution 1/800
 Secondary antibody: Goat anti rabbit IgG at 1/5000 dilution
 Exposure time: 10 seconds



Immunohistochemistry of paraffin-embedded Human colorectal cancer tissue using [TA322661] (CA3 Antibody) at dilution 1/140 (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human colorectal cancer tissue using [TA322661] (CA3 Antibody) at dilution 1/140, treated with fusion protein. (Original magnification: ×200)