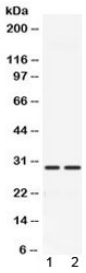
CA3 Antibody / Carbonic Anhydrase III (R32517)

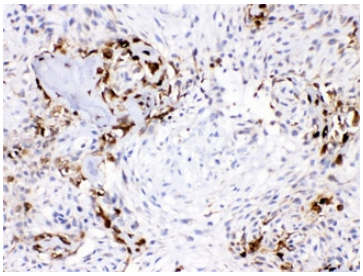
Catalog No.	Formulation	Size
R32517	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

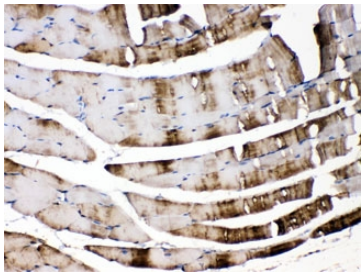
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
UniProt	P07451
Localization	Cytoplasmic
Applications	Western blot: 0.5-1ug/ml IHC (FFPE): 1-2ug/ml
Limitations	This CA3 antibody is available for research use only.



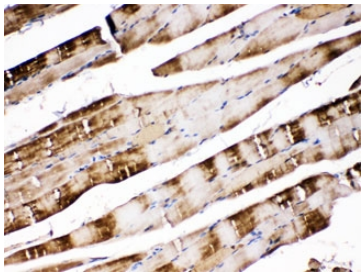
Western blot testing of 1) rat muscle and 2) mouse muscle with CA3 antibody at 0.5ug/ml. Predicted/observed molecular weight ~29 kDa.



IHC testing of FFPE human osteosarcoma with CA3 antibody at 1ug/ml. HIER: steam section in pH6 citrate buffer for 20 min.



IHC testing of FFPE mouse skeletal muscle with CA3 antibody at 1ug/ml. HIER: steam section in pH6 citrate buffer for 20 min.



IHC testing of FFPE rat skeletal muscle with CA3 antibody at 1ug/ml. HIER: steam section in pH6 citrate buffer for 20 min.

Description

Carbonic Anhydrase III (CA3) is an enzyme that in humans is encoded by the CA3 gene. CA3 is a member of a multigene family (at least six separate genes are known) that encode carbonic anhydrase isozymes. The gene spans 10.3 kb and contains seven exons and six introns. Using a cDNA clone of the CA3 gene in the study of human-rodent hybrids, the gene was mapped to chromosome 8 which carries a cluster of CA genes. 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.

Application Notes

Differences in protocols and secondary/substrate sensitivity may require the CA3 antibody to be titrated for optimal performance.

Immunogen

Amino acids D14-E235 from the human protein were used as the immunogen for the CA3 antibody.

Storage

After reconstitution, the CA3 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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