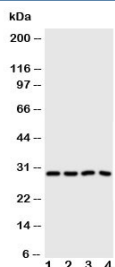


Carbonic Anhydrase III antibody (R30509)

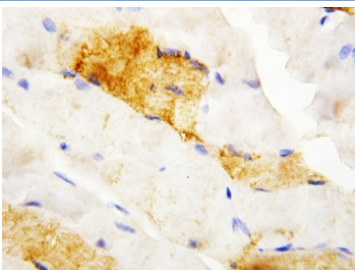
Catalog No.	Formulation	Size
R30509	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

[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/thimerosal
UniProt	P07451
Localization	Cytoplasmic
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 0.5-1ug/ml
Limitations	This Carbonic Anhydrase III antibody is available for research use only.



Western blot testing of Carbonic Anhydrase III antibody and Lane 1: SMMC-7721; 2: HeLa; 3: SW620; 4: SCG cell lysate. Predicted/observed molecular weight ~29 kDa.



IHC-P: Carbonic Anhydrase III antibody testing of rat skeletal muscle tissue. 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. It 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. The protein is found in high concentration in muscle. It is used in conjunction with creatine kinase detection of the carrier state for Duchenne muscular dystrophy.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the CA3 antibody Carbonic Anhydrase III may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the N-terminus of human Carbonic Anhydrase III (AKEWGYASHNGPDHWHELF) was used as the immunogen for this Carbonic Anhydrase III antibody.

Storage

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