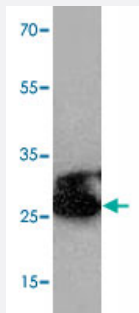


# CA3 polyclonal antibody

Catalog # PAB19533

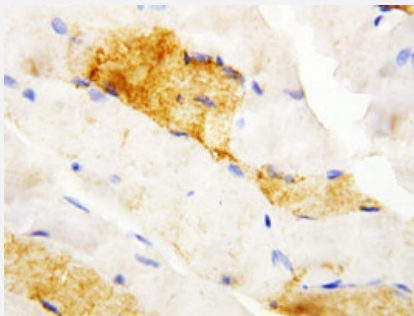
Size 100 ug

## Applications



### Western Blot (Tissue lysate)

Western blot analysis of rat skeletal muscle with CA3 polyclonal antibody (Cat # PAB19533).



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of paraffin-embedded rat skeletal muscle tissue section with CA3 polyclonal antibody (Cat # PAB19533).

## Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of CA3.
Immunogen	A synthetic peptide corresponding to amino acids at N-terminus of human CA3.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Specificity	It different from the related mouse and rat sequence by two amino acids.
Form	Lyophilized
Purification	Immunoaffinity purification

Isotype	IgG
Recommend Usage	Western Blot (1 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> (5 mg BSA, 0.05 mg sodium azide, 0.05 mg Thimerosal)
Storage Instruction	Store at -20°C on dry atmosphere. After reconstitution with 200 uL of deionized water and concentration will be 500 ug/mL, store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide and thimerosal: POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- Western Blot (Tissue lysate)

Western blot analysis of rat skeletal muscle with CA3 polyclonal antibody (Cat # PAB19533).

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of paraffin-embedded rat skeletal muscle tissue section with CA3 polyclonal antibody (Cat # PAB19533).

## Gene Info — CA3

Entrez GeneID	<a href="#">761</a>
Gene Name	CA3
Gene Alias	CAIII, Car3
Gene Description	carbonic anhydrase III, muscle specific
Omim ID	<a href="#">114750</a>
Gene Ontology	<a href="#">Hyperlink</a>

**Gene Summary**

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. [provided by RefSeq]

**Other Designations**

carbonic anhydrase III

**Pathway**

- [Nitrogen metabolism](#)