

CA3 Antibody (monoclonal) (M02)
Mouse monoclonal antibody raised against a full-length recombinant CA3.
Catalog # AT1357a

Specification

CA3 Antibody (monoclonal) (M02) - Product Information

Application	WB, IHC, E
Primary Accession	P07451
Other Accession	BC004897
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG1 kappa
Calculated MW	29557

CA3 Antibody (monoclonal) (M02) - Additional Information

Gene ID 761

Other Names

Carbonic anhydrase 3, Carbonate dehydratase III, Carbonic anhydrase III, CA-III, CA3

Target/Specificity

CA3 (AAH04897, 1 a.a. ~ 260 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution

WB~~1:500~1000

IHC~~1:100~500

E~~N/A

Format

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

Storage

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions

CA3 Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

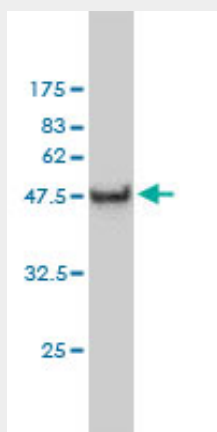
CA3 Antibody (monoclonal) (M02) - Protocols

Provided below are standard protocols that you may find useful for product applications.

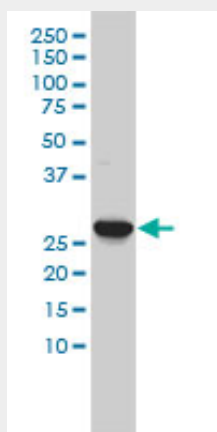
- [Western Blot](#)
- [Blocking Peptides](#)

- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

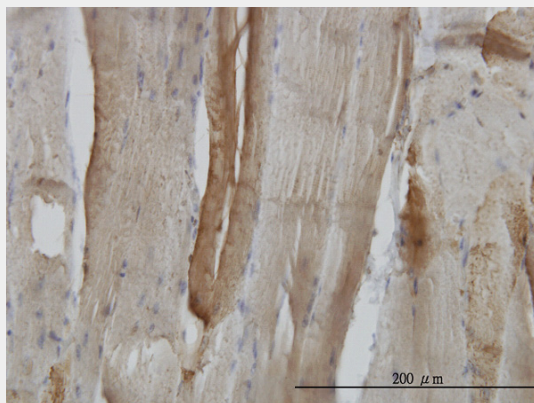
CA3 Antibody (monoclonal) (M02) - Images



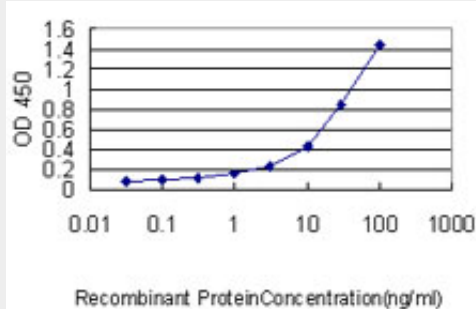
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (54.34 kDa) .



CA3 monoclonal antibody (M02), clone 4A12-1A3 Western Blot analysis of CA3 expression in K-562 ((Cat # AT1357a)



Immunoperoxidase of monoclonal antibody to CA3 on formalin-fixed paraffin-embedded human skeletal muscle. [antibody concentration 3 ug/ml]



Detection limit for recombinant GST tagged CA3 is approximately 1ng/ml as a capture antibody.

CA3 Antibody (monoclonal) (M02) - 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.

CA3 Antibody (monoclonal) (M02) - References

1. Proteomic profiling of antisense-induced exon skipping reveals reversal of pathobiochemical abnormalities in dystrophic mdx diaphragm. Doran P, Wilton SD, Fletcher S, Ohlendieck K. Proteomics. 2009 Feb;9(3):671-85.