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Datasheet

CA3 monoclonal antibody (M02), clone 4A12-1A3

Catalog Number: H00000761-M02

Regulatory Status: For research use only (RUO)

Product Description: Mouse monoclonal antibody raised against a full-length recombinant CA3.

Clone Name: 4A12-1A3

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

Sequence:
MAKEWGYASHNGPDHWHELFPNAKGENQSPIELHTK
DIRHDPSLQPWSVSYDGGSAKTILNNGKTCRVVFDDT
YDRSMLRGGPLPGPYRLRQFHLHWGSSDDHGSEHTV
DGVKYAAELHLVHWNPKYNTFKEALKQRDGIAVIGIFL
KIGHENGEFQIFLDALDKIKTKGKEAPFTKFDPSCLFPA
CRDYWTYQGSFTTPPCEECIVWLLLKEPMTVSSDQM
AKLRSLLPSAENEPPVPLVSNWRPPQPINNRVVRASF
K

Host: Mouse

Reactivity: Human

Applications: ELISA, IHC-P, S-ELISA, WB-Ce, WB-Re (See our web site product page for detailed applications information)

Protocols: See our web site at http://www.abnova.com/support/protocols.asp or product page for detailed protocols

Isotype: IgG1 kappa

Storage Buffer: In 1x PBS, pH 7.4

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

Entrez GeneID: 761

Gene Symbol: CA3

Gene Alias: CAIII, Car3

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]

References:

1. Expression of CAIII and Hsp70 Is Increased the Mucous Membrane of the Posterior Commissure in Laryngopharyngeal Reflux Disease. Min HJ, Hong SC, Yang HS, Mun SK, Lee SY. Yonsei Med J. 2016 Jan 28.57(2):469-74.
2. The human cardiac and skeletal muscle proteomes defined by transcriptomics and antibody-based profiling. Lindskog C, Linne J, Fagerberg L, Hallstrom BM, Sundberg CJ, Lindholm M, Huss M, Kampf C, Choi H, Liem DA, Ping P, Varemo L, Mardinoglu A, Nielsen J, Larsson E, Ponten F, Uhlen M. BMC Genomics. 2015 Jun 25;16(1):475.
3. 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.