

Datasheet

ATP2A3 monoclonal antibody (M01), clone 2H3

Catalog Number: H00000489-M01

Regulatory Status: For research use only (RUO)

Product Description: Mouse monoclonal antibody raised against a partial recombinant ATP2A3.

Clone Name: 2H3

Immunogen: ATP2A3 (AAH35729, 501 a.a. ~ 620 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Sequence:

TRPHPTGQGSKMFVKGAPESVIERCSSLVVRVGSRTAPL
TPTSREQILAKIRDWGSGLTLRCLALATRDAPPRKED
MELDDCSKQYETDLTFVGCVGMDDPPRPEVAACIT
RCYQAGIR

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: IgG2a 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: 489

Gene Symbol: ATP2A3

Gene Alias: SERCA3

Gene Summary: This gene encodes one of the SERCA Ca(2+)-ATPases, which are intracellular pumps located in the sarcoplasmic or endoplasmic reticula of muscle

cells. This enzyme catalyzes the hydrolysis of ATP coupled with the translocation of calcium from the cytosol to the sarcoplasmic reticulum lumen, and is involved in calcium sequestration associated with muscular excitation and contraction. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq]

References:

1. Loss of endoplasmic reticulum calcium pump expression in choroid plexus tumours. Ait-Ghezali L, Arabian A, Jeibmann A, Hasselblatt M, Hallaert GG, Van den Broecke C, Gray F, Brouland JP, Varin-Blank N, Papp B *Neuropathol Appl Neurobiol.* 2014 Oct;40(6):726-35. doi: 10.1111/nan.12098.
2. Modulation of endoplasmic reticulum calcium pump expression during lung cancer cell differentiation. Arabian A, Brouland JP, Apati A, Paszty K, Hegedus L, Enyedi A, Chomienne C, Papp B. *FEBS J.* 2012 Nov 15. doi: 10.1111/febs.12064.
3. Expression of Sarco/Endoplasmic Reticulum Ca²⁺-ATPase (SERCA) 3 proteins in two major conformational states in native human cell membranes. Corvazier E, Bredoux R, Kovacs T, Enouf J. *Biochim Biophys Acta.* 2009 Mar;1788(3):587-99. Epub 2008 Dec 16.