



## Anti-ATP2A1 (aa 522-612) polyclonal antibody (DPAB-DC2047)

This product is for research use only and is not intended for diagnostic use.

### PRODUCT INFORMATION

<b>Antigen Description</b>	This gene encodes one of the SERCA Ca(2+)-ATPases, which are intracellular pumps located in the sarcoplasmic or endoplasmic reticulum 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 muscular excitation and contraction. Mutations in this gene cause some autosomal recessive forms of Brody disease, characterized by increasing impairment of muscular relaxation during exercise. Alternative splicing results in three transcript variants encoding different isoforms.
<b>Immunogen</b>	ATP2A1 (NP_775293, 522 a.a. ~ 612 a.a) partial recombinant protein with GST tag. The sequence is IDRCNYVRVGTRVPLTGPVKEKIMAVIKEWGTGRDTLRCLALATRDTPPKREEMVLDDSA RFLEYETDLTFVGVVGMLDPPRKEVTGSIQ
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB (Recombinant protein), ELISA,
<b>Size</b>	50 µl
<b>Buffer</b>	50 % glycerol
<b>Preservative</b>	None
<b>Storage</b>	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

### GENE INFORMATION

<b>Gene Name</b>	<a href="#">ATP2A1 ATPase, Ca++ transporting, cardiac muscle, fast twitch 1 [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	ATP2A1
<b>Synonyms</b>	ATP2A1; ATPase, Ca++ transporting, cardiac muscle, fast twitch 1; ATP2A; SERCA1; sarcoplasmic/endoplasmic reticulum calcium ATPase 1; calcium pump 1; SR Ca(2+)-ATPase 1; endoplasmic reticulum class 1/2 Ca(2+) ATPase; calcium-transporting ATPase sarcoplasmic reticulum type, fast twitch skeletal muscle isoform;
<b>Entrez Gene ID</b>	<a href="#">487</a>
<b>Protein Refseq</b>	<a href="#">NP_001273004</a>
<b>UniProt ID</b>	<a href="#">O14983</a>
<b>Chromosome Location</b>	16p12.1
<b>Pathway</b>	Alzheimers disease; Calcium signaling pathway; Ion channel transport; Pancreatic secretion
<b>Function</b>	ATP binding; calcium ion binding; calcium-transporting ATPase activity; protein binding