



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

Antigen Description	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 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.
Immunogen	ATP2A1 (NP_775293, 522 a.a. ~ 612 a.a) partial recombinant protein with GST tag. The sequence is IDRCNYVRVGTTTRVPLTGPVKEKIMAVIKEWGTGRDTRLRCLALATRDTPPKREEMVLDDSD ARFLEYETDLTFVGVGMLDPPRKEVTGSIQ
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	ATP2A1 ATPase, Ca++ transporting, cardiac muscle, fast twitch 1 [Homo sapiens (human)]
Official Symbol	ATP2A1
Synonyms	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;
Entrez Gene ID	487
Protein Refseq	NP_001273004
UniProt ID	O14983
Chromosome Location	16p12.1
Pathway	Alzheimers disease; Calcium signaling pathway; Ion channel transport; Pancreatic secretion
Function	ATP binding; calcium ion binding; calcium-transporting ATPase activity; protein binding