

## Mouse Monoclonal Antibody to ATP2A1

<b>Catalogue Number</b>	sAP-1541
<b>Target Molecule</b>	<p><b>Name:</b> ATP2A1</p> <p><b>Aliases:</b> ATP2A; SERCA1</p> <p><b>MW:</b> 110kDa</p> <p><b>Entrez Gene ID:</b> 487</p>
<b>Description</b>	<p>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.</p>
<b>Immunogen</b>	Purified recombinant fragment of human ATP2A1 (AA: 487-631) expressed in E. Coli.
<b>Reactive Species</b>	Human; Mouse; Monkey;
<b>Clone</b>	MM4F11F6
<b>Size and Concentration</b>	100µg/1mg/ml
<b>Supplied as</b>	Lyophilized Powder from 100µl of Purified antibody in PBS with 0.05% sodium azide
<b>Reconstitution/Storages</b>	Reconstituted with 100µl sterile DI H <sub>2</sub> O, at stored at 4°C or -20°C for short or long term storage
<b>Applications</b>	ELISA: 1 to 10000; WB: 1 to 500 - 1 to 2000; ICC: N to A; FCM: N to A; IHC: N to A
<b>Shipping</b>	Regular FEDEX overnight shipment (ambient temperature)
<b>Reference</b>	1. Biochem Biophys Res Commun. 2012 Jun 29; 423(2):212-7. 2. Mol Genet Metab. 2013 Sep-Oct; 110(1-2):162-9.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**