

# SERCA2/ATP2A2 Rabbit mAb

Catalog No.: A11692 **Recombinant** **1 Publications**

## Basic Information

**Observed MW**

100kDa

**Calculated MW**

115kDa

**Category**

Primary antibody

**Applications**

ELISA, WB, IF/ICC, IP

**Cross-Reactivity**

Human, Mouse, Rat

**CloneNo number**

ARC0679

## Background

This gene encodes one of the SERCA Ca<sup>2+</sup>-ATPases, which are intracellular pumps located in the sarcoplasmic or endoplasmic reticula of the skeletal muscle. This enzyme catalyzes the hydrolysis of ATP coupled with the translocation of calcium from the cytosol into the sarcoplasmic reticulum lumen, and is involved in regulation of the contraction/relaxation cycle. Mutations in this gene cause Darier-White disease, also known as keratosis follicularis, an autosomal dominant skin disorder characterized by loss of adhesion between epidermal cells and abnormal keratinization. Other types of mutations in this gene have been associated with various forms of muscular dystrophies. Alternative splicing results in multiple transcript variants encoding different isoforms.

## Recommended Dilutions

**WB** 1:500 - 1:2000**IF/ICC** 1:50 - 1:200**IP** 0.5µg-4µg antibody for  
200µg-400µg extracts of  
whole cells

## Immunogen Information

**Gene ID**

488

**Swiss Prot**

P16615

**Immunogen**

A synthetic peptide corresponding to a sequence within amino acids 943-1042 of human SERCA2/ATP2A2 (P16615).

**Synonyms**

DD; DAR; ATP2B; SERCA2; SERCA2/ATP2A2

## Contact

 | 400-999-6126 | [cn.market@abclonal.com.cn](mailto:cn.market@abclonal.com.cn) | [www.abclonal.com.cn](http://www.abclonal.com.cn)

## Product Information

**Source**

Rabbit

**Isotype**

IgG

**Purification**

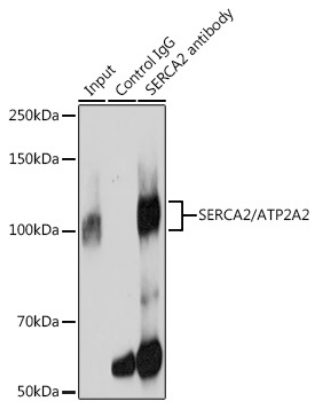
Affinity purification

**Storage**

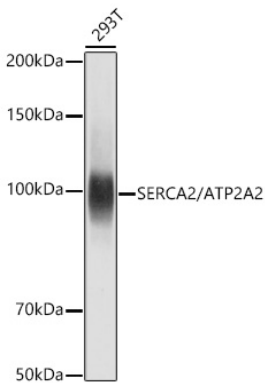
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, 0.05% BSA, 50% glycerol, pH7.3.

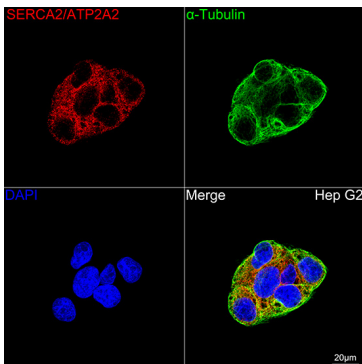
## Validation Data



Immunoprecipitation analysis of 300 µg extracts of 293T cells using 3 µg SERCA2/ATP2A2 antibody (A11692). Western blot was performed from the immunoprecipitate using SERCA2/ATP2A2 antibody (A11692) at a dilution of 1:3000.



Western blot analysis of various lysates using SERCA2/ATP2A2 Rabbit mAb (A11692) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 1s.



Confocal imaging of Hep G2 cells using SERCA2/ATP2A2 Rabbit mAb (A11692, dilution 1:100) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with  $\alpha$ -Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.