

# SERCA2/ATP2A2 Rabbit mAb

Catalog No.: A11692

Recombinant

3 Publications

## Basic Information

### Observed MW

115 kDa

### Calculated MW

115 kDa

### Category

Primary antibody

### Applications

WB, IF/ICC, IP, ELISA

### 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** 1:2000 - 1:10000**IF/ICC** 1:100 - 1:1000**IP** 0.5µg-4µg antibody for  
200µg-400µg extracts of  
whole cells**ELISA** Recommended starting  
concentration is 1 µg/mL.  
Please optimize the  
concentration based on  
your specific assay  
requirements.

## Contact

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## Immunogen Information

### Gene ID

488

### Swiss Prot

P16615

### Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

### Synonyms

DD; DAR; ATP2B; SERCA2; SERCA2/ATP2A2

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

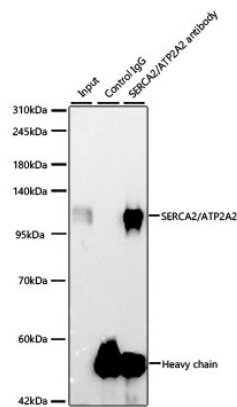
Affinity purification

### Storage

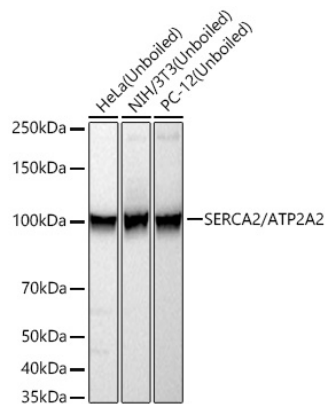
Store at -20°C. Avoid freeze / thaw cycles.

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

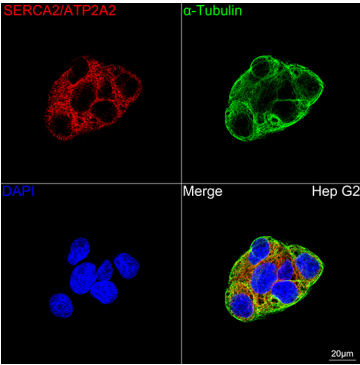
Validation Data



Immunoprecipitation of SERCA2/ATP2A2 from 200 µg extracts of 293F cells was performed using 0.5 µg of SERCA2/ATP2A2 Rabbit mAb (A11692). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1× Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using SERCA2/ATP2A2 Rabbit mAb (A11692) at a dilution of 1:1000.



Western blot analysis of various lysates using SERCA2/ATP2A2 Rabbit mAb (A11692) at 1:10000 dilution incubated at room temperature for 1.5 hours.  
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25 µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 60 s.



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 α-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.