Leader in Biomolecular Solutions for Life Science

www.abclonal.com

SERCA2/ATP2A2 Rabbit mAb

Catalog No.: A11692 Recombinant 3 Publications

Basic Information

Observed MW
115kDa/

Calculated MW
115kDa

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(2+)-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	1:1000 - 1:6000
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.

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

Contact

400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn

Product Information

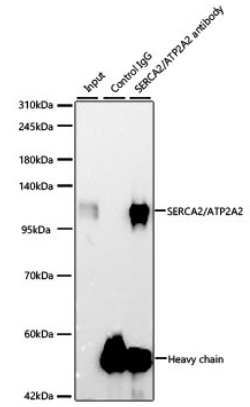
Source
Rabbit

Isotype
IgG

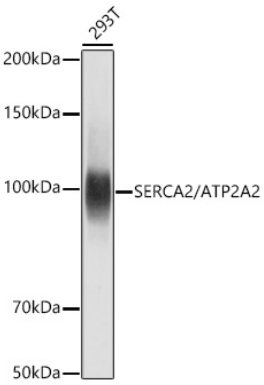
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.02% sodium azide,0.05% BSA,50% glycerol,pH7.3.

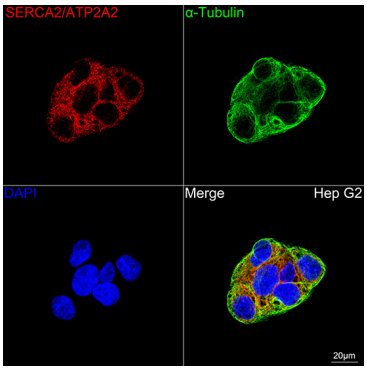
Validation Data



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 1X 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 1:1000 dilution.
Secondary antibody: HRP-conjugated 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 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.