


Product datasheet

Anti-SERCA1 ATPase antibody ab105172

1 Image

Overview

Product name	Anti-SERCA1 ATPase antibody
Description	Rabbit polyclonal to SERCA1 ATPase
Host species	Rabbit
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Mouse, Rat, Human Predicted to work with: Gorilla 
Immunogen	Synthetic peptide conjugated to KLH derived from within residues 1 - 100 of Human SERCA1 ATPase. Read Abcam's proprietary immunogen policy
Positive control	This antibody gave a positive signal in Human, Mouse and Rat Skeletal Muscle tissue lysates.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS Note: Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab105172** in the following tested applications.

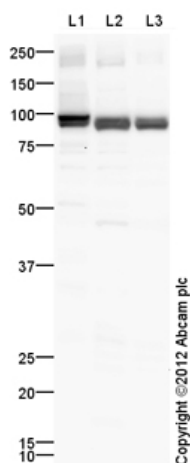
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 99 kDa (predicted molecular weight: 110 kDa).

Target

Function	Key regulator of striated muscle performance by acting as the major Ca(2+) ATPase responsible for the reuptake of cytosolic Ca(2+) into the sarcoplasmic reticulum. Catalyzes the hydrolysis of ATP coupled with the translocation of calcium from the cytosol to the sarcoplasmic reticulum lumen. Contributes to calcium sequestration involved in muscular excitation/contraction.
Tissue specificity	Skeletal muscle, fast twitch muscle (type II) fibers.
Involvement in disease	Brody myopathy
Sequence similarities	Belongs to the cation transport ATPase (P-type) (TC 3.A.3) family. Type IIA subfamily.
Developmental stage	Isoform SERCA1A accounts for more than 99% of SERCA1 isoforms expressed in adult skeletal muscle, while isoform SERCA1B predominates in neo-natal skeletal muscle.
Cellular localization	Endoplasmic reticulum membrane. Sarcoplasmic reticulum membrane.

Images



Western blot - Anti-SERCA1 ATPase antibody
(ab105172)

All lanes : Anti-SERCA1 ATPase antibody

(ab105172) at 1 µg/ml

Lane 1 : Human skeletal muscle tissue lysate

- total protein (ab29330)

Lane 2 : Skeletal Muscle (Mouse) Tissue

Lysate

Lane 3 : Skeletal Muscle (Rat) Tissue Lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP)

preadsorbed (ab97080) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 110 kDa

Observed band size: 99 kDa

Exposure time: 2 minutes

The predicted molecular weight of SERCA1 ATPase is 110 kDa (SwissProt), however we expect to observe a banding pattern at 99 kDa. Abcam welcomes customer feedback and would appreciate any comments regarding this product and the data presented above.

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