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ត្ត ATP2A1/SERCA1 (D54G12) Rabbit mAb



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For Research Use Only. Not for Use in Diagnostic Procedures.

| Applications: W | Reactivity: H M | Sensitivity: Endogenous | MW (kDa): 100 | Source/Isotype: Rabbit IgG | UniProt ID: #O14983 | Entrez-Gene Id: 487 | | |
|----------------------------------------------|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|--|--|
| Product Usage Information | | Application Western Blotting | | | Dilution 1:1000 | | | |
| Storage | | Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody. | | | | | | |
| Specificity/Sen | sitivity | ATP2A1/SERCA1 (D54G12) Rabbit mAb recognizes endogenous levels of total ATP2A1/SERCA1 protein. | | | | | | |
| Species predict based on 100% homology | | Rat | | | | | | |
| Source / Purific | ation | Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro995 of human ATP2A1/SERCA1 protein. | | | | | | |
| Background | | Sarcoplasmic and endoplasmic reticulum Ca ²⁺ ATPases (SERCA) are members of a highly conserved family of Ca ²⁺ pumps (1). SERCA pumps transport Ca ²⁺ from the cytosol to the sarcoplasmic and endoplasmic reticulum lumen against a large concentration gradient (1). ATP2A1 (SERCA1) is a fast-twitch, skeletal muscle sarcoplasmic reticulum Ca ²⁺ ATPase (2). Research studies have shown that mutations in the ATP2A1 gene cause an autosomal recessive muscle disorder known as Brody myopathy, which is characterized by muscle cramping and impaired muscle relaxation associated with exercise (1-3). | | | | | | |
| Background Re | eferences | 1. Hovnanian, A. (2007 2. Odermatt, A. et al. (3. Odermatt, A. et al. (| 1996) Nat Genet 14 | l, 191-4. | | | | |
| Species Reactiv | /ity | Species reactivity is determined by testing in at least one approved application (e.g., western blot). | | | | | | |
| Western Blot B | uffer | IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight. | | | | | | |
| Applications Ke | ey | W: Western Blotting | | | | | | |
| Cross-Reactivit | у Кеу | H: Human M: Mouse | | | | | | |
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