

Product datasheet for TA383783M

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

SERCA2 (ATP2A2) Rabbit Monoclonal Antibody [Clone ID: R09-1G2]

Product data:

Product Type: Primary Antibodies

Clone Name: R09-1G2
Applications: IF, IHC, WB

Recommended Dilution: WB: 1/2000-1/10000

IHC: 1/20

ICC/IF: 1/50-1/100

Reactivity: Human, Rat

Host: Rabbit Isotype: IgG

Clonality: Monoclonal

Immunogen: A synthetic peptide of human SERCA2 ATPase

Formulation: 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA

Concentration: lot specific

Purification: Affinity Purified
Conjugation: Unconjugated

Storage: Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Stability: 1 year

Predicted Protein Size: Calculated MW: 115 kDa; Observed MW: 115 kDa

Gene Name: ATPase sarcoplasmic/endoplasmic reticulum Ca2+ transporting 2

Database Link: Entrez Gene 488 Human

P16615





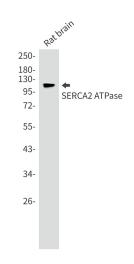
Background:

Swiss-Prot Acc.P16615. This magnesium-dependent enzyme catalyzes the hydrolysis of ATP coupled with the translocation of calcium from the cytosol to the sarcoplasmic reticulum lumen. Isoform 2 is involved in the regulation of the contraction/relaxation cycle (PubMed:16402920). Acts as a regulator of TNFSF11-mediated Ca2+ signaling pathways via its interaction with TMEM64 which is critical for the TNFSF11-induced CREB1 activation and mitochondrial ROS generation necessary for proper osteoclast generation. Association between TMEM64 and SERCA2 in the ER leads to cytosolic Ca (2+) spiking for activation of NFATC1 and production of mitochondrial ROS, thereby triggering Ca (2+) signaling cascades that promote osteoclast differentiation and activation .

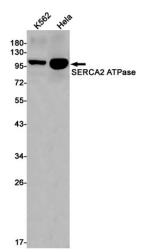
Synonyms:

ATP2B; DAR; DD; DKFZp686P0211; FLJ20293; FLJ38063; MGC45367; SERCA2

Product images:

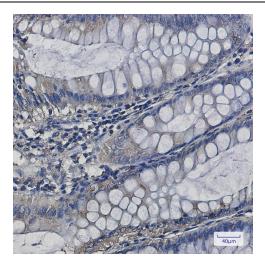


Western blot analysis of SERCA2 ATPase in rat brain lysates using SERCA2 ATPase antibody.

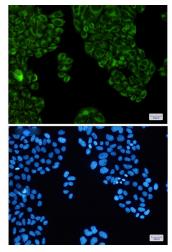


Western blot analysis of SERCA2 ATPase in K562, Hela lysates using SERCA2 ATPase antibody.





Immunohistochemistry analysis of paraffinembedded Human colon cancer using SERCA2 ATPase antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.



Immunocytochemistry analysis of SERCA2 ATPase(green) in Hela using SERCA2 ATPase antibody, and DAPI(blue)