

**ATP2C2 polyclonal antibody**

Catalog: BS32926

Host: Rabbit

Reactivity: Human, Mouse, Rat

BackGround:

Calcium-transporting ATPase type 2C member 2: ATP-driven pump that supplies the Golgi apparatus with $\text{Ca}(2+)$ and $\text{Mn}(2+)$ ions, both essential cofactors for processing and trafficking of newly synthesized proteins in the secretory pathway. Within a catalytic cycle, acquires $\text{Ca}(2+)$ or $\text{Mn}(2+)$ ions on the cytoplasmic side of the membrane and delivers them to the luminal side. The transfer of ions across the membrane is coupled to ATP hydrolysis and is associated with a transient phosphorylation that shifts the pump conformation from inward-facing to outward-facing state. Induces $\text{Ca}(2+)$ influx independently of its ATP-driven pump function. At the basolateral membrane of mammary epithelial cells, interacts with $\text{Ca}(2+)$ channel ORAI1 and mediates $\text{Ca}(2+)$ entry independently of the $\text{Ca}(2+)$ content of endoplasmic reticulum or Golgi stores. May facilitate trans-epithelial transport of large quantities of $\text{Ca}(2+)$ for milk secretion via activation...

Product:

1mg/ml in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.

Molecular Weight:

~103 kDa

Swiss-Prot:

O75185

Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

Applications:

WB (1/500 - 1/1000)

Storage&Stability:

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

Specificity:

Recognizes endogenous levels of ATP2C2 protein

DATA:

Western blot analysis of VWA5A expression in mouse liver (A), mouse heart (B), rat liver (C), rat heart (D) whole cell lysates.

Immunofluorescent analysis of VWA5A staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

Note:

For research use only, not for use in diagnostic procedure.

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