

产品名称: PMCA1 (2Y18) Rabbit Monoclonal Antibody  
产品货号: AMRe16299



## 产品概述 (Summary)

|                        |                                         |
|------------------------|-----------------------------------------|
| 产品名称 (Production Name) | PMCA1 (2Y18) Rabbit Monoclonal Antibody |
| 描述 (Description)       | Recombinant rabbit monoclonal antibody  |
| 宿主 (Host)              | Rabbit                                  |
| 应用 (Application)       | WB,IHC,IF-P                             |
| 种属反应性 (Reactivity)     | Human,Mouse,Rat                         |

## 产品性能 (Performance)

|                     |                                                                                                                                                                                              |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 偶联物 (Conjugation)   | Unconjugated                                                                                                                                                                                 |
| 修饰 (Modification)   | Unmodified                                                                                                                                                                                   |
| 同种型 (Isotype)       | IgG                                                                                                                                                                                          |
| 克隆 (Clonality)      | Monoclonal                                                                                                                                                                                   |
| 形式 (Form)           | Liquid                                                                                                                                                                                       |
| 存放说明 (Storage)      | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.                                                                                                     |
| 储存溶液 (Buffer)       | Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle. |
| 纯化方式 (Purification) | Affinity purification                                                                                                                                                                        |

## 免疫原信息 (Immunogen)

|                        |                |
|------------------------|----------------|
| 基因名 (Gene Name)        | ATP2B1         |
| 别名 (Alternative Names) | ATP2B1; PMCA1; |
| 基因 ID (Gene ID)        | 490.0          |
| 蛋白 ID (SwissProt ID)   | P20020.        |

## 产品应用 (Application)

|                          |                                                 |
|--------------------------|-------------------------------------------------|
| 稀释比 (Dilution Ratio)     | WB 1:1000-1:2000,IHC 1:50-1:200,IF-P 1:50-1:200 |
| 蛋白分子量 (Molecular Weight) | 135kDa                                          |

## 研究背景 (Background)

**产品名称: PMCA1 (2Y18) Rabbit Monoclonal Antibody**  
**产品货号: AMRe16299**

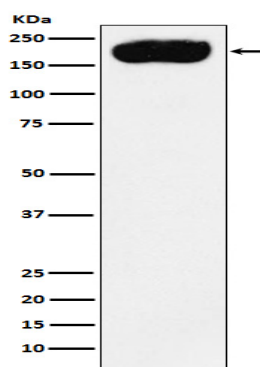


This magnesium-dependent enzyme catalyzes the hydrolysis of ATP coupled with the transport of calcium out of the cell. Catalyzes the hydrolysis of ATP coupled with the transport of calcium from the cytoplasm to the extracellular space thereby maintaining intracellular calcium homeostasis. Plays a role in blood pressure regulation through regulation of intracellular calcium concentration and nitric oxide production leading to regulation of vascular smooth muscle cells vasoconstriction. Positively regulates bone mineralization through absorption of calcium from the intestine. Plays dual roles in osteoclast differentiation and survival by regulating RANKL-induced calcium oscillations in preosteoclasts and mediating calcium extrusion in mature osteoclasts (By similarity). Regulates insulin sensitivity through calcium/calmodulin signaling pathway by regulating AKT1 activation and NOS3 activation in endothelial cells (PubMed:<a href="http://www.uniprot.org/citations/29104511" target="\_blank">29104511</a>). May play a role in synaptic transmission by modulating calcium and proton dynamics at the synaptic vesicles.

## 研究领域 (Research Area)

Signal Transduction

## 图片 (Image Data)



Western blot analysis of PMCA1 expression in HepG2 cell lysate.

## 注意事项 (Note)

For research use only .