**Product name**: Anti-PMCA1 antibody [EPR12029] ab190355

**Description**: Rabbit monoclonal [EPR12029] to PMCA1

**Host species**: Rabbit

**Tested applications**: Suitable for: WB, IHC-P

**Species reactivity**: Reacts with: Mouse, Rat, Human

**Immunogen**: Synthetic peptide within Human PMCA1 aa 1150-1250. The exact sequence is proprietary. Database link: P20020

**Positive control**: HeLa, Neuro-2a, U87-MG and HepG2 cell lysates; Human stomach and Human transitional cell carcinoma of bladder tissues.

**General notes**: Our RabMab® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMab® patents. This product is a recombinant rabbit monoclonal antibody.

**Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>Liquid</td>
</tr>
<tr>
<td>Storage buffer</td>
<td>Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol, 0.05% BSA</td>
</tr>
<tr>
<td>Purity</td>
<td>Protein A purified</td>
</tr>
<tr>
<td>Clonality</td>
<td>Monoclonal</td>
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<tr>
<td>Clone number</td>
<td>EPR12029</td>
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<tr>
<td>Isotype</td>
<td>IgG</td>
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</table>

**Applications**
Function
This magnesium-dependent enzyme catalyzes the hydrolysis of ATP coupled with the transport of calcium out of the cell.

Tissue specificity
Isoform B is ubiquitously expressed. Isoform C is found in brain cortex, skeletal muscle and heart muscle. Isoform D has only been found in fetal skeletal muscle. Isoform K has been found in small intestine and liver.

Sequence similarities
Belongs to the cation transport ATPase (P-type) (TC 3.A.3) family. Type IIB subfamily.

Domain
The calmodulin-binding subdomain B is different in the different splice variants and shows pH dependent calmodulin binding properties in isoforms A, C, D and E.

Cellular localization
Cell membrane.

Images

**All lanes** : Anti-PMCA1 antibody [EPR12029] (ab190355) at 1/2000 dilution

**Lane 1** : U87-MG cell lysate
**Lane 2** : HepG2 cell lysate

Lysates/proteins at 10 µg per lane.

**Secondary**

**All lanes** : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

**Predicted band size**: 139 kDa
**Observed band size**: 130-250 kDa

why is the actual band size different from the predicted?
Western blot - Anti-PMCA1 antibody [EPR12029] (ab190355)

All lanes: Anti-PMCA1 antibody [EPR12029] (ab190355) at 1/2000 dilution

Lane 1: HepG2 cell lysate
Lane 2: Neuro-2a cell lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 139 kDa
Observed band size: 130-250 kDa why is the actual band size different from the predicted?

Immunohistochemical analysis of paraffin-embedded Human transitional cell carcinoma of bladder tissue labeling PMCA1 with ab190355 at 1/500 dilution. A prediluted HRP Polymer for Rabbit IgG as secondary antibody. Counterstained with Hematoxylin. Negative control also shown.
Immunohistochemical analysis of paraffin-embedded Human stomach tissue labeling PMCA1 with ab190355 at 1/500 dilution. A prediluted HRP Polymer for Rabbit IgG as secondary antibody. Counterstained with Hematoxylin. Negative control also shown.

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