Proton ATPase 116 kDa subunit

**Cat.No. 109 002; Polyclonal rabbit antibody, 200 µl antiserum (lyophilized)**

### Data Sheet

<table>
<thead>
<tr>
<th>Reconstitution/Storage</th>
<th>200 µl antiserum, lyophilized. For reconstitution add 200 µl H₂O, then aliquot and store at -20°C until use.</th>
</tr>
</thead>
</table>
| Applications           | WB: 1 : 1000 (AP staining) (see remarks)  
                          | ICC: 1 : 100 (see remarks)  
                          | IHC: not recommended  
                          | IHC-P/FFPE: 1 : 200 |
| Immunogen             | Synthetic peptide corresponding to AA 826 to 838 from rat Proton ATPase (UniProt Id: P25286) |
| Reactivity            | Reacts with: rat (P25286), mouse (Q9Z1G4), hamster. Other species not tested yet. |
| Specificity            | Specific for the α1 116kDa subunit. K.D. PubMed: 21795392 |
| Matching control      | 109-0P |
| Remarks               | WB: Proton ATPase aggregates after boiling, making it necessary to run SDS-PAGE with non-boiled samples.  
                          | ICC: Methanol fixation is recommended. |

**TO BE USED IN VITRO / FOR RESEARCH ONLY  
NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS**

The Proton ATPase, also referred to as vacuolar proton pump, is involved in the acidification of many intracellular organelles. The pump is composed of more than 10 subunits, of which the 116 kDa subunit is the largest. This subunit has an N-terminal cytoplasmic domain and a C-terminal transmembrane domain with probably 6 transmembrane regions. The 116 kDa subunit is essential for proton pump activity.

**Selected References SYSY Antibodies**

Tetanus toxin is transported in a novel neuronal compartment characterized by a specialized pH regulation. Bohneit S, Schiao G

WB, ICC; tested species: rat


WB, ICC; tested species: mouse

Newly produced synaptic vesicle proteins are preferentially used in synaptic transmission. Truckenbrodt S, Viplav A, Jähne S, Vogts A, Denker A, Wildhagen H, Fornasiero EF, Rizzoli SO

The EMBO journal (2018) ... IHC; tested species: rat


ICC; tested species: mouse


ICC; tested species: mouse, rat


WB; tested species: human

Loss of the SV2-like protein SVOP produces no apparent deficits in laboratory mice. Yao J, de la Iglesia HO, Bajalle SM

WB; tested species: mouse

The neural cell adhesion molecule promotes maturation of the presynaptic endocytotic machinery by switching synaptic vesicle recycling from adaptor protein 3 (AP-3)- to AP-2-dependent mechanisms. Shetty A, Snytky V, Leschvynski A, Puchkov D, Haucke V, Schachner M

WB; tested species: mouse


WB


WB; KD verified; tested species: rat


ICC; tested species: human

Differential sorting of the vesicular glutamate transporter 1 into a defined vesicular pool is regulated by light signaling involving the clock gene Period2. Yelamanchili SV, Pendyala G, Brunk I, Darna M, Albrecht U, Ahnert-Hilger G

WB; tested species: mouse


WB, ICC; tested species: rat


WB; tested species: human

Loss of the SV2-like protein SVOP produces no apparent deficits in laboratory mice. Yao J, de la Iglesia HO, Bajalle SM

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WB; tested species: mouse


WB, ICC; tested species: rat


WB; tested species: mouse


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WB; tested species: mouse


WB; tested species: mouse