

product **AS09 486**

**Ca<sup>2+</sup>-ATPase | calmodulin-stimulated calcium-ATPase**

## product information

<b>background</b>	<b>Ca<sup>2+</sup>-ATPase   calmodulin-stimulated calcium-ATPase</b> belongs to family of cation transport ATPase (P-type).
<b>immunogen</b>	<u>KLH</u> -conjugated synthetic peptide derived from <i>Brassica oleracea</i> calmodulin-stimulated calcium-ATPase <u>P93067</u>
<b>antibody format</b>	rabbit polyclonal, serum,
<b>quantity</b>	100 µl
<b>storage</b>	store at -20°C; make aliquots to avoid repeated freeze-thaw cycles. Please, remember to spin tubes briefly prior to opening them to avoid any losses that might occur from material adhering to the cap or sides of the tubes.
<b>tested applications</b>	western blot (WB), ELISA (ELISA)
<b>additional information</b>	0.1 % sodium azide is added as preservative. For antibody re-suspending information check the tube label.  This protein is of low abundance in plant tissues.  Protocol for tonoplast membrane isolation can be found <a href="#">here</a> .

## application information

<b>recommended dilution</b>	1: 8000 (ELISA), 1: 1000 with standard ECL (WB)
<b>expected   apparent MW</b>	111   110 kDa ( <i>Raphanus sativus</i> )
<b>confirmed reactivity</b>	<i>Arabidopsis thaliana</i> , <i>Brassica oleracea</i> , <i>Raphanus sativus</i>
<b>predicted reactivity</b>	dicots including: <i>Vitis vinifera</i> , monocots including: <i>Oryza sativa</i> , <i>Triticum aestivum</i> , trees: <i>Populus balsamifera</i> , moss: <i>Physcomitrella patens</i>
<b>not reactive in</b>	no confirmed exceptions from predicted reactivity known in the moment
<b>additional information</b>	Protein or membrane sample should be treated at 70°C for 10 min before loading on the gel.  Manufactured by Operon Biotechnologies.
<b>selected references</b>	to be added when available

## application example

**1 µg and 10 µg of crude membrane fraction/lane** from *Raphanus sativa* L. Tokinashi-daikon were separated on 12 % **SDS-PAGE** and blotted 1h to PVDF membrane (40 min. at 10 V using BioRad semidry transfer). Filters were blocked 1h with 5 % low-fat **milk powder** in TBS-T (0.05% Triton X.100). Membranes were washed 5 times with TBS-T, each time in a fresh polystyrene box and probed with anti-Ca<sup>2+</sup> ATPase antibodies (AS09 486, **1:1000**, 1h) and secondary anti-rabbit (**1:2000**, 1 h). All steps were performed in RT with agitation.

