

product **AS07 212**

**VDAC1 | voltage-dependent anion-selective channel protein 1**

## product information

background	VDAC1 protein (called also Synonyms: At3g01280, outer mitochondrial membrane protein porin 1, T22N4_9, T22N4.9, VDAC 1, Voltage-dependent anion-selective channel protein 1, voltage-gated ion-selective channel) forms a channel through the cell membrane for diffusion of small hydrophilic molecules. Evolutionary origin of VDAC protein is not clear and their structure and properties are quite different making those proteins only conceptually like porins (Clausen et al. 2004).
immunogen	KLH conjugated peptide conserved in all known higher plant VDAC1 proteins including <i>Arabidopsis thaliana</i> with the locus name: <a href="#">At3g01280</a>
antibody format	rabbit polyclonal affinity purified serum, in PBS pH 7.4 lyophilized
quantity	200 µg for reconstitution add 200 µl of sterile water.
storage	store lyophilized/reconstituted at -20°C; once reconstituted 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 lyophilized material adhering to the cap or sides of the tubes.
tested applications	western blot (WB), immunolocalization (IL)
additional information	cellular [compartment marker] of mitochondrial outer membrane

## application information

recommended dilution	1:5000 on 2-30 µg of protein/lane with standard ECL (WB)
expected   apparent MW	29 kDa (for <i>Arabidopsis thaliana</i> )
confirmed reactivity	<i>Arabidopsis thaliana</i> , <i>Papaver</i> sp. pollen tubes (IL)
predicted reactivity	dicots including <i>Nicotiana tabacum</i> , <i>Plantago major</i> and monocots including <i>Triticum aestivum</i> , mosses <i>Physcomitrella patens</i>
not reactive in	<i>Chlamydomonas reinhardtii</i> , <i>Glycine max</i> , <i>Zea mays</i>
additional information	not available at the moment
selected references	<a href="#">Gibala</a> et al. (2009). The lack of mitochondrial AtFtsH4 protease alters <i>Arabidopsis</i> leaf morphology at the late stage of rosette development under short day photoperiod. Plant J.