

product **AS08 327**

Sec21p | gamma subunit, COP vesicles

product information

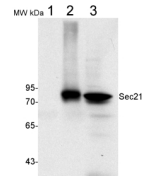
background	Sec21p is a constituent of the COPI vesicle coatomer.
immunogen	GST fusion of a part of recombinant Sec21 of <i>Arabidopsis thaliana</i> Q0WW26
antibody format	rabbit polyclonal serum lyophilized
quantity	200 µl for reconstitution add 200 µl of sterile water.
storage	store lyophilized/reconstituted 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), immunofluorescence (IF)
additional information	to be added when available

application information

recommended dilution	1: 1000 with standard ECL (WB), 1: 1000 (IF)
expected apparent MW	98 kDa
confirmed reactivity	<i>Arabidopsis thaliana</i> , <i>Zea mays</i>
predicted reactivity	dicots including <i>Vitis vinifera</i> , monocots including <i>Oryza sativa</i> , <i>Zea mays</i> , deciduous broadleaf tree <i>Populus trichocarpa</i>
not reactive in	<i>Nicotiana tabacum</i> , <i>Microsporidia</i> sp.
additional information	this antibody can be used as a Golgi marker in immunolocalization and as a marker of COP1 in Western blot
selected references	Movafeghi et al. (1999) Arabidopsis Sec21p and Sec23p homologs: Probable coat proteins of plant COP-coated vesicles. Plant Physiol. 119, 1437–1445.

application example

50 µg of total protein from (1) *Nicotiana tabacum* protoplast total protein, (2) *Arabidopsis thaliana* protoplast soluble protein, (3) *Arabidopsis thaliana* protoplast total protein were separated on **10 % SDS-PAGE** and blotted 2h to **nitrocellulose** (Semi-dry, 200mA). Filters were blocked over night with 5% low-fat **milk powder** in TBS and probed with anti-Sec21p antibodies (AS08 327, **1:1000**, 1h) and secondary anti-rabbit (**1:20000**, 1 h) antibody (HRP) in TBS-Tween. Signal was detected with **standard ECL** and exposure time for this image was 1 minute.



Protoplasts were extracted in 50mM Tris, 10 mM EDTA and Triton X100, 0.02%.

Immunofluorescence

Immunofluorescence labelling of rabbit anti-SEC21 (gamma subunit of COP vesicles; red) in 5-day-old root epidermal cells of *Arabidopsis thaliana* expressing ER-mGFP5-HDEL (ER marker; green). The antibody was diluted 1:1000 and the secondary antibody, donkey anti-rabbit CY5-coupled (Jackson ImmunoResearch) was diluted 1:300. The nuclei were stained with DAPI (blue).

Courtesy of Dr. Anna Gustavsson and Dr. Markus Grebe

