

This product is for research use only (not for diagnostic or therapeutic use)

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Product no AS20 4408

Anti-Delta-VPE | Vacuolar-processing enzyme delta-isozyme

Product information

Immunogen Recombinant, His6-tagged, delta-VPE from Arabidopsis thaliana, UniProt: Q9LJX8, TAIR: At3g20210

Host Rabbit

Clonality Polyclonal

Purity Total IgG. Protein A purified in PBS, 50% glycerol. Filter sterilized.

Format Liquid at 2 mg/ml.

Quantity 100 μg

Storage Store at -20°C; once reconstituted make aliquots to avoid repeated freeze-thaw cycles. Please remember to spin the

tubes briefly prior to opening them to avoid any losses that might occur from material adhering to the cap or sides of the

Application information

Recommended dilution 1: 500 (IF), 1: 5000 (IL), 1: 5000 (WB)

Expected | apparent 52 kDa (inactive precursor) | 37-38 kDa (mature, active form)

Confirmed reactivity Arabidopsis thaliana

Predicted reactivity Camelina sativa, Capsella rubella, Eutrema salsugineum, Raphanus sativus Species of your interest not listed? Contact

Not reactive in No confirmed exceptions from predicted reactivity are currently known

Additional information Subcellular localisation is seed specific and restricted to developing seeds at 7 days after anthesis, Delta-VPE is

detected at lower levels in flowers siliques, specifically in seed coats

Kunieda et al. (2013). Spatiotemporal secretion of PEROXIDASE36 is required for seed coat mucilage extrusion in Selected references

Arabidopsis. Plant Cell . 2013 Apr;25(4):1355-67.doi: 10.1105/tpc.113.110072. (Western blot, Arabidopsis thaliana) Kunieda et al. (2008). NAC family proteins NARS1/NAC2 and NARS2/NAM in the outer integument regulate embryogenesis in Arabidopsis. Plant Cell. 2008 Oct;20(10):2631-42.doi: 10.1105/tpc.108.060160. (Western blot,

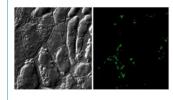
Arabidopsis thaliana)

Nakaune et al. (2005). A vacuolar processing enzyme, deltaVPE, is involved in seed coat formation at the early stage of seed development. Plant Cell. 2005 Mar;17(3):876-87. doi: 10.1105/tpc.104.026872. (Immunofluorescence,

Immunolocalisation by electron microscopy, Western blot, Arabidopsis thaliana)



Arabidopsis thaliana maturing siliques was freshly extracted to a crude extract with 2x SDS-sample buffer (+ 2ME) for SDS-PAGE and denatured with 4X SDS buffer at 95 °C for 5 min. were separated on 15-20 % SDS-PAGE and blotted to PVDF membrane in wet system. Blot was blocked with 3 % skim milk/TBS-T, 1h/RT with agitation. Blot was incubated in the primary antibody at a dilution of 1: 5000 in TBS-T for 1h/RT. The antibody solution was decanted and the blot was washed 4 times for 10 min in TBS-T at RT with agitation. Blot was incubated in matching secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated) diluted to 1:10 000 in for 1h/RT with agitation. The blot was washed as above and developed with a chemiluminescent detection reagent, following manufacture's recommendations.





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Left panel: differential Interference Contrast Image

Right panel: Immunofluorescent staining

Material: developing seeds of Arabidopsis thaliana

Fixation: 7.2% (w/v) formaldehyde, 0.1% (v/v) Nonidet P-40, 10% (v/v) dimethyl sulfoxide, and 50 mM Na-phosphate buffer, pH 7.2 for 40

minutes.

Wash, 2x: TBS-T for 5 min, incubated in TBS-T containing 5% (w/v) Cellulase Onozuka R-10 and 2% (w/v) Pectolyase Y-23 for 20 min at 30°C

Was: 2x with TBS-T

Blocking: 30 min. in 2 % BSA in TBS-T Primary antibody: 1: 500, 40 min. Wash: 3x5 min. with TBS-T

Secondary antibodies: goat anti-rabbit AlexaFluor 488 conjugated

Wash: 3x 5 min. TBS-T and mounted