

VDAC1-5 | Voltage-dependent anion-selective channel protein 1-5, ALP-conjugated (40 µg)

Cat PA01191

Size 40 µg

Host

Rabbit

Clonality

Polyclonal

Confirmed reactivity

Arabidopsis thaliana, *Beta vulgaris*, *Brassica oleracea* var. *botrytis*, *Oryza sativa*, *Papaver* sp. pollen tubes (IL), *Spinacia oleracea*, *Physcomitrium patens*

Immunogen

KLH-conjugated peptide conserved in all known higher plant VDAC proteins including *Arabidopsis thaliana* VDAC1 UniProt: Q9SRH5, TAIR: AT3G01280, VDAC2 UniProt F4K3R8-1, TAIR: AT5G67500, VDAC3 UniProt: Q9SMX3-1, TAIR: AT5G15090, VDAC4 UniProt: Q9FKM2-1, TAIR: AT5G57490, VDAC5 UniProt: Q9M2W6-1, TAIR: AT3G49920

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Purity

Immunogen affinity purified serum in PBS pH 7.4, conjugated to ALP.

Format

Liquid

Storage

Store at 4°C for 12-18 months. A preservative may be added for long time storage up to 2 years.

Application

2D Blue Native PAGE (2D BN-PAGE), Immunolocalization (IL), Western blot (WB)

Recommended dilution

1 : 500 (IL), 1 : 5000, 2-30 µg protein/lane (WB)

Expected | apparent MW

29 kDa (for *Arabidopsis thaliana*)

Confirmed reactivity

Arabidopsis thaliana, *Beta vulgaris*, *Brassica oleracea* var. *botrytis*, *Oryza sativa*, *Papaver* sp. pollen tubes (IL), *Spinacia oleracea*, *Physcomitrium patens*

Predicted reactivity

Arabidopsis alpina, *Aundo donax*, *Brachypodium distachyon*, *Brassica campestris*, *Brassica napus*, *Brassica rapa* subsp. *pekinensis*, *Capsella rubella*, *Citrus clementina*, *Citrus sinensis*, *Eutrema salsugineum*, *Glycine max*, *Glycine soja*, *Gossypium arboreum*, *Hoedum vulgare* var. *distichum*, *Jatropha curcas*, *Medicago truncatula*, *Mesembryanthemum crystallinum*, *Morus notabilis*, *Nicotiana tabacum*, *Phaseolus coccineus*, *Phaseolus*

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vulgaris, Pisum sativum, Plantago major, Prunus persica, Ricinus communis, Solanum lycopersicum, Solanum tuberosum, Sorghum bicolor, Theobroma cacao, Triticum aestivum, Vitis vinifera, Zea mays

Not reactive in

Chlamydomonas reinhardtii, Glycine max, Zea mays, diatoms, Saccharomyces cerevisiae

Additional information

Cellular [compartment marker] of mitochondrial outer membrane, Amount of mitochondrial fraction detected by anti-VDAC1 antibody is from 2-10 µg. Immunolocalization method description and images are available here Blue-native (2D BN/SDS-PAGE) methodology is described in Piechota et al. 2010

Description

VDAC proteins are porin-type, β -barrel diffused pores. It is mainly located in the outer membrane of mitochondria and participates in metabolite exchange.

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