

VDAC1-5 | Voltage-dependent anion-selective channel protein 1-5

Cat PA01190

Size 50 µg

Host

Rabbit

Clonality

Polyclonal

Confirmed reactivity

Arabidopsis thaliana, Beta vulgaris, Brassica oleracea var. botrytis, Brassica rapa subsp. rapa, Citrus sinensis, Fortunella margarita Swingle, Oryza sativa, Papaver sp. pollen tubes (IL), Spinacia oleracea, Physcomitrium patens, Zea mays

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

Host

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Clonality

Polyclonal

Purity

Immunogen affinity purified serum in PBS pH 7.4.

Format

Lyophilized

Reconstitution

For reconstitution add 50 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 the tubes briefly prior to opening them to avoid any losses that might occur from material adhering to the cap or sides of the tube.

Application

2D Blue Native PAGE (2D BN-PAGE), 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

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Predicted reactivity

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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Arabidopsis alpina, Aundo donax, Brachypodium distachyon, Brassica campestris, Brassica napus, Brassica rapa subsp. pekinensis, Capsella rubella, Citrus clementina, 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 vulgaris, Pisum sativum, Plantago major, Prunus persica, Ricinus communis, Solanum lycopersicum, Solanum tuberosum, Sorghum bicolor, Theobroma cacao, Triticum aestivum, Vitis vinifera

Not reactive in

Chlamydomonas reinhardtii, Glycine max, diatoms, Saccharomyces cerevisiae

Additional information

Cellular [compartment marker] of mitochondrial outer membrane for western blot, 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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