

APX | L-ascorbate peroxidase



Cat. No. APA-GA-172

Lot. No. (See product label)

Product Name

APX | L-ascorbate peroxidase

Host

Rabbit

Immunogen

BSA-conjugated synthetic peptide derived from Arabidopsis thaliana tAPX (thylakoidal ascorbate peroxidase) UniProt: Q42593-1, TAIR:At1g77490 and sAPX (stromal/mitochondrial ascorbate peroxidase) UniProt: Q42592-1 TAIR: At4g08390 Five out of twelve amino acids are also identical with cAPX1 (At1g07890), cAPX2 (At3g09640) and pAPX (At4g35000)

Background

APX plays a key role in plant antioxidant system by reducing hydrogen peroxide to water. Cellular localization includes chloroplast (tAPX and sAPX), cytosol (cAPX) and peroxisome (pAPX).

Format

Lyophilized

Clonality

Polyclonal

Purity

Serum

Quantity

50 µl

Reactivity

A. thaliana, A. maritima, Brassica sp., C. annuum, Citrus sp., D. muscipula, D. sanguinalis, E. crus-galli, I. formosana, L. sativus, M. esculenta, M. sativa, N. tabacum, O. sativa, P. miliaceum, P. zeylanica, S. lycopersicum, S. oleracea, S. superba, S. vulgaris, Triticum aestivum, Z. mays

Confirmed reactivity

Arabidopsis thaliana, Armeria maritima, Brassica napus, Capsicum annuum, Citrus sp., Digitaria sanguinalis, Dionaea muscipula, Echinochloa crus-galli, Iris pumila, Lathyrus sativus, Liquidambar formosana, Lupin sp., Manihot esculenta, Medicago sativa, Nicotiana tabacum thylakoid-bound APX, stromal APX; Oryza sativa, Panicum miliaceum, Plumbago zeylanica, Schima superba, Silene vulgaris, Solanum lycopersicum, Spinacia oleracea (stromal APX, thylakoid-bound), Triticum aestivum

Predicted reactivity

Brassica rapa subsp. oleifera Stromal APX; Glycine max, Glycine soja L-ascorbate peroxidase T, chloroplastic; Medicago truncatula thylakoid-bound APX; Mesembryanthemum crystallinum, Pisum sativum Chloroplast stromal ascorbate peroxidase 12; Solanum lycopersicum thylakoid-bound APX; Spinacia oleracea stromal APX; Theobroma cacao L-APX T isoform 3; Vitis vinifera

Not reactive in

Algae, Helianthus annuus, Marchantia polymorpha

Reconstitution

For reconstitution add 50 µl of sterile water

Expected/apparent MW

25-38 kDa for A. thaliana

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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Tested applications

Western blot (WB)

Recommended dilution

1 : 2000 (WB)

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.

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