

L-ascorbate peroxidase 2, cytosolic (APX2) Recombinant Protein | APX2 recombinant protein

Recombinant Arabidopsis thaliana L-ascorbate peroxidase 2, cytosolic (APX2), partial

CATALOG # AAA278933	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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PRODUCT SYNONYMS

L-ascorbate peroxidase 2; cytosolic (APX2); Recombinant Arabidopsis thaliana L-ascorbate peroxidase 2; partial; L-ascorbate peroxidase 1b ; APX1b ; AtAPx02; APX2 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	4-250aa; Partial
Sequence	KSYPEVKEEY KKA VQRCKRK LRGLIAEKHC APIVRLAWH SAGTFDVKTK TGGPFGTIRH PQELAH DANN GLDIAVRLLD PIKELFPILS YADFYQLAGV VAVEITGGPE IPFHPGR LDK VEPPEGR LP QATKGVDHLR DVFGRMGLND KDIVALSGGH TLGRCHKERS GFEGAWTPNP LIFDNSYFKE ILSGEKEGLL QLPTDKALLD DPLFLPFVEK YAADEDAFFE DYTEAHLKLS ELGFADK
Species	Arabidopsis thaliana (Mouse-ear cress)
Subcellular Location	Cytoplasm
Protein Families	Peroxidase family, Ascorbate peroxidase subfamily
Tissue Specificity	Detected in bundle sheath cells, the photosynthetic cells that surround the phloem and xylem.
Relevance	Plays a key role in hydrogen peroxide roval.
Function	Plays a key role in hydrogen peroxide removal.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20 degree C/-80 degree C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Preparation and Storage	Store at -20 degree C. For extended storage, store at -20 or -80 degree C.

ADDITIONAL INFORMATION

Product Categories/Family for APX2 recombinant protein	Others
References	Cytosolic ascorbate peroxidase from Arabidopsis thaliana L. is encoded by a small multigene family. Santos M., Gosseau H., Lister C., Foyer C., Creissen G.P., Mullineaux P.M. Planta 198:64-69(1996) https://www.ncbi.nlm.nih.gov/UniGene/clust.cgi?ORG=At&CID=129 https://www.genome.jp/dbget-bin/www_bget?ath:AT3G09640 https://string-db.org/network/3702.AT3G09640.1

NCBI AND UNIPROT INFORMATION

NCBI GI #	79313169
NCBI GeneID	820121
NCBI Accession #	NP_001030664.1
NCBI GenBank Nucleotide #	NM_001035587.3
UniProt Accession #	Q1PER6; Q39006; Q67XB1; Q9SF39
Molecular Weight	28,006 Da
NCBI Official Full Name	ascorbate peroxidase 2
NCBI Official Symbol	APX2
NCBI Official Synonym Symbols	APX1B; ASCORBATE PEROXIDASE 1B; ascorbate peroxidase 2; CS2
NCBI Protein Information	ascorbate peroxidase 2
UniProt Protein Name	L-ascorbate peroxidase 2, cytosolic
UniProt Gene Name	APX2
UniProt Synonym Gene Names	APX1B; APX1b; AtAPx02

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/apx2-recombinant-protein-e-coli-or-yeast-or-baculovirus-or-mammalian-cell/278933>