

Anti-L-ascorbate peroxidase antibody

Catalog: PHY2791A

Product Information

Description:	Rabbit polyclonal antibody	
Background:	Ascorbate peroxidases are enzymes that scavenge hydrogen peroxide in plant	
	cells. Eight types of APX have been described for Arabidopsis: three cytosolic	
	(APX1 (AT1G07890), APX2 (AT3G09640), APX6 (AT4G32320)), two	
	chloroplastic types (stromal sAPX (AT4G08390), thylakoid tAPX (AT1G77490)),	
	and three microsomal (APX3 (AT4G35000), APX4 (AT4G09010), APX5	
	(AT4G35970)) isoforms.	
Synonyms:	TAPX,THYLAKOIDAL ASCORBATE PEROXIDASE	
Immunogen:	KLH-conjugated synthetic peptide (18 aa from C terminal section) derived from	
	Arabidopsis thaliana TAPX (AT1G77490).	
Form:	Lyophilized	
Quantity:	150 µg	
Purification:	Immunogen affinity purified	
Reconstitution:	Reconstitution with 150 µl of 0.01 M sterile PBS.	
	"Note: please spin tube briefly prior to opening it to avoid any losses that might	
	occur from lyophilized material adhering to the cap or sides of the tube".	
Stability &	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.	
Storage:	12 months from date of receipt, -20 to -70 $^\circ C$ as supplied.	
	6 months, -20 to -70 $^\circ C$ under sterile conditions after reconstitution.	
	1 month, 2 to 8 $^\circ\!\mathrm{C}$ under sterile conditions after reconstitution.	
Shipping:	The product is shipped at 4 $^\circ\!\mathrm{C}$. Upon receipt, store it immediately at the	
	temperature recommended above.	

Application Information

Recommended Dilution:	Western Blot (1:1000-1:2000)
	Note: Optimal dilutions/concentrations should be determined by the
	end user.
Expected / apparent MW:	46 / 38 kDa
Confirmed Reactivity:	Arabidopsis thaliana

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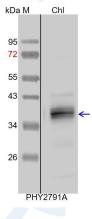


Predicted Reactivity:

Among species analyzed, the sequence of the synthetic peptide used for immunization is 100% homologues with the sequence in *Panicum virgatum*, *Triticum* aestivum, *Cucumis* sativus, Hordeum vulgare, Brassica rapa, Brassica napus, Nicotiana tabacum, Glycine max, Vitis vinifera, Populus trichocarpa, Solanum lycopersicum, Solanum tuberosum, Setaria viridis, and 80-99% homologues with the sequence in Oryza sativa, Medicago truncatula, Gossypium raimondii, Sorghum bicolor, Zea mays. The sequence of the synthetic peptide used for immunization is 83% (15/18) homologues with the sequence in SAPX (AT4G08390). For more species homologues information, please contact tech

For more species homologues information, please contact tech support at <u>tech@phytoab.com</u>.

Application Example Example1:



Chl: 10µl total chloroplast protein from Arabidopsis thaliana.

Electrophoresis: 15% SDS-PAGE

Transfer: blotting to NC (nitrocellulose) membrane for 1 h.

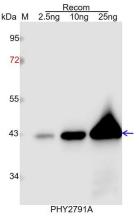
Blocking: 5% skim milk at RT or 4° for 1 h.

Primary antibody: 1:2000 dilution overnight at 4°C.

Secondary antibody: 1:10000 dilution using Goat Anti-Rabbit IgGH&L(HRP) (Cat# PHY6000).

Detection: using chemiluminescence substrate and image were captured with CCD camera.

Example2:



Recom: 2.5 ng, 10 ng and 25 ng recombinant protein containing the peptide for immunization and having a molecular mass of 43 kDa.

Electrophoresis: 12% SDS-PAGE

Transfer: blotting to NC (nitrocellulose) membrane for 1 h.

Blocking: 5% skim milk at RT or 4° C for 1 h.

Primary antibody: 1:1000 dilution overnight at 4°C.

Secondary antibody: 1:10000 dilution using Goat Anti-Rabbit IgG H&L (HRP) (Cat# PHY6000).

Detection: using chemiluminescence substrate and image were captured with CCD camera.

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