

PhyA | Phytochrome A

Cat PA00221

Size 50 µg

Host

Rabbit

Clonality

Polyclonal

Confirmed reactivity

Arabidopsis thaliana, *Arachis hypogaea* L., *Nicotiana benthamiana*, *Nicotiana tabacum*

Immunogen

KLH-conjugated synthetic peptide derived from conserved plant PhyA protein sequences including *Arabidopsis thaliana* UniProt:P14712, TAIR:At1g59070; peptide sequence is not present in other plant phytochrome forms (B-E)

Host

Rabbit

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

Western blot (WB)

Recommended dilution

1 : 1000 (WB)

Expected | apparent MW

124 kDa

Confirmed reactivity

Arabidopsis thaliana, *Arachis hypogaea* L., *Nicotiana benthamiana*, *Nicotiana tabacum*

Predicted reactivity

Brassica rapa, *Cardamine hirsuta*, *Daucus carota*, *Lathyrus sativus*, *Fragaria ananassa*, *Glycine max*, *Gossyium hirsutum*, *Hordeum vulgare*, *Lotus corniculatus*, *Medicago truncatula*, *Nicotiana benthamiana* (PhyA1), *Nicotiana tabacum*, *Pisum sativum*, *Populus balsamifera*, *Ricinus communis*, *Solanum lycopersicum*

Not reactive in

No confirmed exceptions from predicted reactivity are currently known

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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Additional information

In vivo pull down assay for PhyA and western blot analysis of eluted proteins is described in Paik et al. (2012). Phytochrome regulates translation of mRNA in the cytosol. PNAS 109 (4): 1335-1340., Careful sample collection is advised to assure the best results with this antibody

Description

Phytochrome A (PhyA) is the main photoreceptor that mediates various plant responses to far-red (FR) light. Alternative protein names: far red long hypocotyl 2, far red long hypocotyl 1, far red long hypocotyl 8.

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