UVR8 | Ultraviolet-B receptor UVR8

Cat *PA00451*

Size *50 μg*

CD BioSciences
Plant Protein

Host
Rabbit

Clonality
Polyclonal

Confirmed reactivity
Arabidopsis thaliana

Immunogen
KLH-conjugated peptide derived from Arabidopsis thaliana UVR8, UniProt: Q9FN03, TAIR: At5g63860

Host
Rabbit

Clonality
Polyclonal

Purity
Antigen affinity purified serum, in PBS pH 7.4

Format
Lyophilized

Reconstitution
For reconstitution, add 50 µl, of sterile or deionized water.

Storage
Store lyophilized/reconstituted at -20°C; once reconstituted make aliquots to avoid repeated freeze-thaw cycles. Please, remember to spin tubes briefly prior to opening them to avoid any losses that might occur from lyophilized material adhering to the cap or sides of the tubes.

Application
Western blot (WB)

Recommended dilution
1 : 1000 (WB)

Expected | apparent MW
47.12 kDa

Confirmed reactivity
Arabidopsis thaliana

Predicted reactivity
Brassica napus, Coffea arabica, Capsicum annuum, Glycine soja, Gossypium australe, Hordeum vulgare, Ipomoea triloba, Malus domestica, Nicotiana benthamiana, Nicotiana tabacum, Solanum lycopersicum, Solanum tuberosum, Oryza sativa, Phtheirospermum japonicum, Populus alba x Populus x berolinensis, Senna tora, Triticum aestivum, Triticum urartu, Turnera subulata, Zea mays

Not reactive in
No confirmed exceptions from predicted reactivity are currently known

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

Address: SUITE 209, 17 Ramsey Road, Shirley, NY 11967
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Description

UVR8 (Ultraviolet-B receptor UVR8) is a signal transduction component with the function of UV-B photoreceptor and plays a key role in the establishment of anti-ultraviolet response in plants. Under UV-B irradiation, UVR8 immediately transforms from a homodimer to a monomer, accumulates in the nucleus, interacts with the photomorphogenetic inhibitor COP1, and regulates expression of the transcription factor HY5 by binding to chromatin in the HY5 promoter region (via histone H2B binding). Participation in controlling leaf growth and morphogenesis to UV-B is necessary for the normal process of internal circulation, has a regulatory role in stomatal differentiation, and is necessary for the biological clock response of plants to UV-B photomorphogenesis. Promote photosynthetic efficiency when UV-B levels are elevated. It plays a regulatory role in the effect of UV-B radiation on pathogen resistance by regulating the expression of sinapate biosynthesis pathway. Alternative name: contains RCC1 domain protein UVR8, anti-UV-B protein 8.

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