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Product no AS15 2962

Anti-RBOHD | Respiratory burst oxidase homolog protein D

Product information

Immunogen KLH-conjugated peptide chosen from Arabidopsis thaliana RBOHD sequence, UniProt: Q9FIJ0, TAIR: AT5G47910

Host Rabbit

Clonality Polyclonal

Purity Immunogen affinity purified serum in PBS pH 7.4.

Format Lyophilized

Quantity 50 μg

Reconstitution For reconstitution add 50 μl of sterile water

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 information

Recommended dilution 1:1000 (WB)

Expected | apparent

104 kDa

Confirmed reactivity Arabidopsis thaliana, Solanum sp.

Predicted reactivity

Brassica napus, Citrus sinensis, Citrullus colocynthis, Cucumis melo, Fragaria ananassa, Gossypium arboreum, Hordeum vulgare, Manihot esculenta, Morus notabilis, Nicotiana tabacum, Oryza sativa, Picea abies, Ricinus communis, Sinensis osbeck, Solanum tuberosum, Theobroma cacao, Triticum aestivum, Zea mays, Zostera marina Species of your interest not listed? Contact us

Not reactive in Marchantia polymorpha, Medicago sativa

Additional information For solubilization we recommend 65°C for 5 min, Sample boiling is not recommended

Selected references

Goto et al. (2024). The leucine-rich repeat receptor kinase QSK1 regulates PRR-RBOHD complexes targeted by the bacterial effector HopF2Pto.Plant Cell. 2024 Oct 21:koae267.doi: 10.1093/plcell/koae267.

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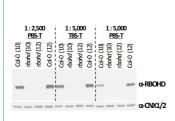
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Total proteins were isolated from 10 or 12 seedlings of 7-day-old *Arabidopsis thaliana* seedlings of Col-0 (wild-type) and *rbohd* null mutant (Nühse et al., 2007). 16 µl of total proteins were denatured at 65°C for 5 min, separated on an 8 % SDS-PAGE. and transferred for 70 min at 55V using a tank transfer system to nitrocellulose membrane. Blots were blocked with 1xPBS+0.1% Tween 20 + 5 % milk (PBS-T) or TBS + 0.1 % Tween 20 (TBS-T) + 5 % milk for 2 h at room temperature (RT) with agitation. Primary antibodies were diluted as indicated to 1: 2,500 and 1: 5,000 respectively and incubated ON at 4°C with agitation in 1xPBS-T pr TBS-T + 5 % milk. The primary antibody solutions were decanted, and the blots were washed 3 times (7 min. each) in 1xPBS-T or TBS-T at RT with agitation. Blot was incubated with secondary antibody goat anti-rabbit HRP conjugated (AS09 602, Agrisera) diluted to 1: 20,000 and developed with chemiluminescent detection reagent, according to manufacture's recommendations. Exposure time was 2 min. for X-ray film. As a control part of the same membrane was incubated with anti-CNX1/2 antibodies (AS12 2365, Agrisera).

References:

<u>Nühse</u> et al. Quantitative phosphoproteomic analysis of plasma membrane proteins reveals regulatory mechanisms of plant innate immune responses. Plant J. 2007 Sep; 51(5): 931–940.

Courtesy of Nga Nguyen, Kelly Mason and Antje Heese (University of Missouri- Columbia, MO, USA