

Datasheet for ABIN4966120 **anti-BRI1 antibody**



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Overview

Quantity:	50 µg
Target:	BRI1
Reactivity:	Arabidopsis thaliana
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunoprecipitation (IP)

Product Details

Immunogen:	KLH-conjugated synthetic peptide derived from Arabidopsis thaliana BRI1 protein, Uniprot: O22476, TAIR: AT4G39400
Cross-Reactivity (Details):	Not reactive in: Hordeum vulgare
Predicted Reactivity:	Brassica rapa

Target Details

Target:	BRI1
Alternative Name:	Brassinosteroid insensitive 1 (BRI1) (BRI1 Products)
Background:	BRI1 (Protein BRASSINOSTEROID INSENSITIVE 1) is a receptor which binds brassinolide and has a dual specificity kinase activity acting on both serine/threonine- and tyrosine-containing substrates. Involved in a signaling cascade including expression of light- and stress-regulated genes, promotion of cell elongation, normal leaf and chloroplast senescence, and flowering. Alternative names: BRI1, BRASSINOSTEROID INSENSITIVE 1, CBB2, CABBAGE 2, DWF2, DWARF

Target Details

2, BIN1, BR INSENSITIVE 1, ATBRI1, Brassinosteroid LRR receptor kinase

Molecular Weight: above 130 kDa (due to N-glycosylation)

UniProt: [O22476](#)

Application Details

Application Notes: 1: 5000 (WB)

Comment: Antibody was tested on bri1-1 and bri1-5 mutants. Bri1-1 is a point mutation in the kinase domain that renders the protein non-functional and plants compensate for that by over-accumulating the non-functional receptor. Bri1-5 is a mutant in the extracellular domain and the bri1-5 protein is retained in the ER. The bri1-5 plants contain less protein than the wild type and show an intermediate brassinosteroid deficient phenotype. Also BRI1-5 migrates higher than wild type BRI1 in SDS-PAGE, because it carries ER-type high mannose N-glycans. For IP: 15 µl GFP-trap beads was used for 200 mg plant material to precipitate GFP-tagged protein followed by detection with Co-IPed BRI1 on Western with 1:5000 diluted anti-BRI1 antibody.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: For reconstitution add 50 µL of sterile water.

Storage: -20 °C

Storage Comment: 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.