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Product no AS09 614

Anti-BiP | Lumenal-binding protein (chicken antibody)

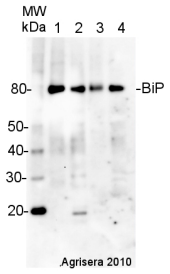
Product information

Immunogen	KLH-conjugated synthetic peptide derived from *Arabidopsis thaliana* BiP proteins: BiP1 UniProt:Q9LKR3, TAIR: At5g28540, BiP2 UniProt: F4K007, TAIR: At5g42020, BiP3 UniProt:Q8H1B3 ,TAIR:At1g09080
Host	Chicken
Clonality	Polyclonal
Purity	Immunogen affinity purified total IgY. in PBS pH 7.4.
Format	Liquid
Quantity	100 µg
Storage	Store at 4°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.
Additional information	Antibody solution contains 0,02% sodium azide as preservative

Application information

Recommended dilution	1 : 50-1 : 1000 (IF), 1 : 2000 (WB)
Expected | apparent MW	73,5 | 80 kDa
Confirmed reactivity	*Arabidopsis thaliana, Hordeum vulgare, Physcomitrium patens, Spinacia oleracea, Zea mays*
Predicted reactivity	*Nicotiana tabacum, Oryza sativa, Physcomitrium patens, Piea sitchensis, Populus trichocarpa, Spinacia oleracea, Zea mays* Species of your interest not listed? Contact us
Not reactive in	No confirmed exceptions from predicted reactivity are currently known
Additional information	Protein or membrane sample should be treated at 70°C for 10 min before loading on the gel
Selected references	Bennett et al. (2014). Plasma Membrane-Targeted PIN Proteins Drive Shoot Development in a Moss. Curr Biol. 2014 Dec 1;24(23):2776-85. doi: 10.1016/j.cub.2014.09.054. Epub 2014 Nov 13.

Application example



5 µg of total protein from *A.thaliana* **(1**), *H. vulgare* **(2)**, *Z.mays* **(3)**, S. oleracea **(4)**, extracted with Agrisera PEB extraction buffer (AS08 300) were separated on **4-12% SDS-PAGE** and blotted 1h to **PVDF**. Blots were blocked immediately following transfer in for 1h at room temperature with agitation. Blots were incubated in the primary antibody at a dilution of 1: 10 000 for 1h at room temperature with agitation. The antibody solution was decanted and the blot was rinsed briefly twice, then washed once for 15 min and 3 times for 5 min in TBS-T at room temperature with agitation. Blots were incubated in secondary antibody (anti-hen IgY horse radish peroxidase conjugated, from Agrisera AS09 603) diluted to 1:50 000 for 1h at room temperature with agitation. The blots were washed as above and developed for 5 min with ECL detection reagent according to the manufacturers instructions. Exposure time was 5 seconds.

immunofluorescence

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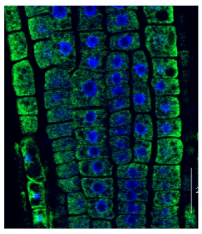

BiP localization in 5 days old *Arabidopsis thaliana* roots. BiP signal shown in green, DAPI in blue. The material has been fixed in para-formaldehyde for 30 minutes. Tissue cleaning has been performed before immunolocalization. Chicken anti-BiP primary antibody was diluted in 1: 1000 and DyLight®488 conjugated goat anti-chicken secondary antibody AS09 622 (green color) was diluted in 1: 1000. Co-staining with DAPI visualized nucleus (blue color). Scale bar – 10 µm.

Courtesy Dr. Taras Pasternak, Freiburg University, Germany