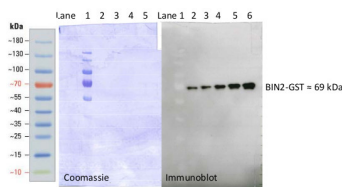


Product no **AS16 3203****Anti-BIN2 | Brassinosteroid insensitive 2****Product information**

| | |
|-----------------------|---|
| Immunogen | KLH-conjugated synthetic peptide derived from <i>Arabidopsis thaliana</i> BIN2 protein, Uniprot: Q39011 , TAIR: AT4G18710 |
| 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 |
| 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 information

| | |
|-------------------------------|---|
| Recommended dilution | 1: 100 (IF), 1: 5000 (WB) |
| Expected apparent MW | 43.1 kDa |
| Confirmed reactivity | <i>Arabidopsis thaliana</i> (recombinant BIN2) |
| Predicted reactivity | <i>Brassica sp.</i> , <i>Cicer arietinum</i> , <i>Citrus sp.</i> , <i>Cucumis melo</i> , <i>Cucumis sativus</i> , <i>Fragaria vesca</i> , <i>Glycine max</i> , <i>Glycine soja</i> , <i>Gossypium raimondii</i> , <i>Jatropha curcas</i> , <i>Lotus japonicus</i> , <i>Medicago truncatula</i> , <i>Morus notabilis</i> , <i>Musa acuminata</i> , <i>Nelumbo nucifera</i> , <i>Phaseolus vulgaris</i> , <i>Populus sp.</i> , <i>Ricinus communis</i> , <i>Sesamum indicum</i> , <i>Tarenaya hasslerina</i> , <i>Vigna angularis</i> , <i>Vigna radicata</i> , <i>Vitis vinifera</i> , <i>Zostera marina</i> |
| Not reactive in | Monocots |
| Selected references | Hu et al. (2023) Spatiotemporal formation of the large vacuole regulated by the BIN2-VLG module is required for female gametophyte development in Arabidopsis [published online ahead of print, 2023 Jan 17]. <i>Plant Cell</i> . 2023;koad007. doi:10.1093/plcell/koad007 |



Samples: Lane 1 = Marker; 2 = 2.5 ng BIN2 GST; 3 = 5 ng BIN2 GST; 4 = 10 ng BIN2 GST; 5 = 20 ng BIN2 GST; 6 = 30 ng BIN2 GST

From 2.5-30 ng of total protein from recombinant BIN2-GST purified protein eluted with the buffer 150 mM NaCl, 5mM DTT, 20mM GSH, 50mM TRIS/HCL pH 8.0 and denatured with 4X SDS +β mercaptoethanol at 95°C for 5 min. The samples were separated on 10% SDS-PAGE and blotted for 120 min to PVDF membrane using semi-dry transfer. Blots were blocked with 5% milk powder in TBST for 60 min at room temperature (RT) with agitation. Blot was incubated in the primary antibody at a dilution of 1: 5000 for 16 h overnight 4°C with agitation. The antibody solution was decanted, and the blot was rinsed briefly twice, then washed 1 time for 10 min in TBST buffer at RT with agitation. Blot was incubated in secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated, [AS09 602](#), Agrisera) diluted to 1:10 000 in for 120 min at RT with agitation. The blot was washed as above and developed for 10 min with chemiluminescence detection reagent and exposed to X-ray film. Exposure time was 60 seconds.

BIN2 43 kDa GST 26 kDa BIN2-GST 69 kDa

Courtesy of Dr. Pablo Altertos, Technical University of Munich, Germany