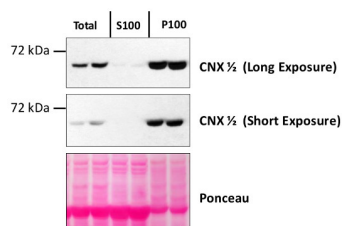


Product no **AS12 2365****CNX1/2 | CALNEXIN HOMOLOG 1/2****Product information**

<b>Immunogen</b>	KLH-conjugated synthetic peptide derived from <i>Arabidopsis thaliana</i> CNX1 UniProt: <a href="#">P29402</a> TAIR: <a href="#">AT5G61790_CNX2</a> UniProt: <a href="#">Q38798</a> , TAIR: <a href="#">AT5G07340</a> . This peptide is NOT present in calreticulins.
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Purity</b>	Immunogen affinity purified serum in PBS pH 7.4.
<b>Format</b>	Liquid
<b>Quantity</b>	50 µg
<b>Storage</b>	Aliquite upon arrival to avoid repeated freeze-thaw cycles and store -20 °C; 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**

<b>Recommended dilution</b>	1 : 2500 (WB)
<b>Expected   apparent MW</b>	CNX1 60.5 kD, processing aa 1-20, mature peptide 58.1 kD CNX2 60.5/61.4 kD, processing aa 1-25, mature peptides 57.6/58.6 kD
<b>Confirmed reactivity</b>	<i>Arabidopsis thaliana</i> , <i>Nicotiana tabacum</i> , <i>Petunia hybrida</i> , <i>Solanum lycopersicum</i>
<b>Predicted reactivity</b>	<i>Brassica napus</i> , <i>Coccomyxa suellipsoidea</i> , <i>Hordeum vulgare</i> , <i>Glycine max</i> , <i>Medicago truncatula</i> , <i>Oryza sativa</i> , <i>Petunia inflata</i> , <i>Physcomitrium patens</i> , <i>Picea sitcHensis</i> , <i>Pisum sativum</i> , <i>Populus trichocarpa</i> , <i>Ricinus communis</i> , <i>Stereum hirsutum</i> , <i>Zea mays</i> , <i>Vitis vinifera</i> Species of your interest not listed? <a href="#">Contact us</a>
<b>Not reactive in</b>	<i>Chlamydomonas reinhardtii</i>
<b>Additional information</b>	Antibody can be used as a marker of microsomal membrane
<b>Selected references</b>	<a href="#">Skalický et al. (2023)</a> . Fluorescence-activated multi-organelle mapping of subcellular plant hormone distribution. <i>Plant J.</i> 2023 Dec;116(6):1825-1841. doi: 10.1111/tpj.16456. Epub 2023 Sep 8. <a href="#">Ekanayake et al. (2021)</a> A. DYNAMIN-RELATED PROTEIN DRP1A functions with DRP2B in plant growth, flg22-immune responses, and endocytosis. <i>Plant Physiol.</i> 2021 Feb 3:kiab024. doi: 10.1093/plphys/kiab024. Epub ahead of print. PMID: 33564884. <a href="#">Ekanayake et al. (2021)</a> A. DYNAMIN-RELATED PROTEIN DRP1A functions with DRP2B in plant growth, flg22-immune responses, and endocytosis. <i>Plant Physiol.</i> 2021 Feb 3:kiab024. doi: 10.1093/plphys/kiab024. Epub ahead of print. PMID: 33564884. <a href="#">Kramer et al. (2020)</a> . N6-methyladenosine and RNA secondary structure affect transcript stability and protein abundance during systemic salt stress in <i>Arabidopsis</i> . <i>Plant Direct.</i> 2020 Jul 24;4(7):e00239. doi: 10.1002/pld3.239. <a href="#">Collins et al. (2020)</a> . EPSIN1 Modulates the Plasma Membrane Abundance of FLAGELLIN SENSING2 for Effective Immune Responses. <i>Plant Physiol.</i> 2020 Feb 24. pii: pp.01172.2019. doi: 10.1104/pp.19.01172 <a href="#">Butler et al. (2019)</a> . Soybean resistance locus Rhg1 confers resistance to multiple cyst nematodes in diverse plant species. <i>Phytopathology.</i> 2019 Aug 12. doi: 10.1094/PHYTO-07-19-0225-R.

**Application example**

Total protein from Col-0 (wild-type) *Arabidopsis thaliana* were extracted with 50mM HEPES-KOH buffer containing 250 mM sucrose, 5% glycerol, 50 mM NaPP, 1 mM NaMo, 25 mM NaF, 10mM EDTA, 0.5% PVP, 3mM DTT, 1mM PMSF, 10uM Leupeptin & 10nM Calyculin, and then fractionated by ultracentrifugation at 100,000 x gravity for 30 min at 4 °C into soluble (S100) and microsomal (P100) proteins as described in [LaMontagne et al. \(2016\)](#). Isolation of Microsomal Membrane Proteins from *Arabidopsis thaliana*. *Current Protocols in Plant Biology* 1:1-18. doi: 10.1002/cppb.20020. 30 µg proteins of total, S100 and P100 fractions were denatured at 37 °C for 5 min, separated on a 7.5 % SDS-PAGE and blotted 1h to nitrocellulose using tank transfer. Blots were blocked with 1x PBS (from Fisher Scientific BP665-1) + 0.1 %Tween 20 (PBS-T) + 5% milk for 1h at room temperature (RT) with agitation. Blot was incubated in the primary antibody at a dilution of 1 : 2500 overnight at 4 °C with

agitation in 1x PBS-T + 5% milk. The antibody solution was decanted, and the blot was rinsed briefly once, then washed four times for 7 min in 1x PBS-T at RT with agitation. Blot was incubated in secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated) diluted to 1:10 000 in 1x PBS-T + 5% milk for 2 hrs at RT with agitation. The blot was washed as above and developed for 4 min with Amersham ECL (RPN2106). Exposure time was 30 seconds and 2 min

Courtesy of Erica LaMontagne & Dr. Antje Heese (Division of Biochemistry, Interdisciplinary Plant Group (IPG) - University of Missouri; Columbia, MO, USA)