

This product is for research use only (not for diagnostic or therapeutic use)

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Product no AS14 2805 NBR1 | Autophagy substrate NBR1

Product information

 Immunogen
 UBA2 domain of NBR1 of Arabidopsis thaliana, fused with GST, UniProt:Q9SB64, TAIR:AT4G24690

 Host
 Rabbit

 Clonality
 Polyclonal

 Purity
 Serum

 Format
 Lyophilized

 Quantity
 50 μl

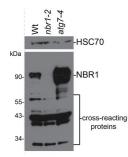
 Reconstitution
 For reconstitution add 50 μl of sterile water

 Storage
 Store Iyophilized/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 (IL), 1 : 500-1 : 5000 (WB)
Expected apparent MW	75 100 kDa
Confirmed reactivity	Arabidopsis thaliana, Physcomitrium patens
Predicted reactivity	Brassicaceae family
	Species of your interest not listed? Contact us
Not reactive in	Citrus sinensis, Nicotiana tabacum
Additional information	Specific extraction method and tissue type needs to be used as described in Minina et al, (2013), Dilution in western blot depends upon amount of NBR1 in the sample
Selected references	Rodriguezet al. (2020). Autophagy mediates temporary reprogramming and dedifferentiation in plant somatic cells.bioRxiv doi.org/10.1101/747410Calero-Mu�±ozet al. (2019). Cadmium induces reactive oxygen species-dependent pexophagy in Arabidopsisleaves. Plant Cell Environ. 2019 Sep;42(9):2696-2714. doi: 10.1111/pce.13597.Jia et al. (2019). Noncanonical ATG8-ABS3 interaction controls senescence in plants. Nat Plants. 2019Feb;5(2):212-224. doi: 10.1038/s41477-018-0348-x.HackenbergHackenberg et al. (2013). Catalase and NO CATALASE ACTIVITY1 promote autophagy-dependent cell death in Arabidopsis. Plant Cell. 2013 Nov;25(11):4616-26. doi: 10.1105/tpc.113.117192. Epub 2013 Nov 27.Minina et al. (2013). Autophagy mediates caloric restriction-induced lifespan extension in Arabidopsis. Aging Cell. 2013 Apr;12(2):327-9. doi: 10.1111/acel.12048. Epub 2013 Feb 28. (method description in supplemental materials) Katsiarimpa et al. (2013). The Deubiquitinating Enzyme AMSH1 and the ESCRT-III Subunit VPS2.1 Are Required for

Application example



Total protein from approximately eight 8-d-old seedlings of *Arabidopsis thaliana* was extracted with NuPAGE sample buffer (106 mM Tris-HCl pH 8.5, 141 mM Tris Base, 2% lithium dodecyl sulfate, 0.51 mM EDTA pH 8.0, 10% glycerol, 0.22 mM Coomassie Blue G250, 0.166 mM Phenol Red) with 50 mM dithiothreitol and denatured at 100°C for 5 min. Proteins were separated by electrophoresis on a Bolt 10% Bis-Tris Plus gel



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(Invitrogen) and transferred for 40 min at 24 V to an Amersham Protran 0.45 µm nitrocellulose membrane (GE Healthcare Life Sciences) using semidry transfer. The membrane was blocked with 8% milk in TBS-T for 2 h at 4°C with agitation. The membrane was incubated in the primary antibody at a dilution of 1:4000 overnight at 4°C with agitation in 8% milk in TBS-T. The antibody solution was decanted and the blot was rinsed briefly twice, then washed 3 times for 5 min in 8% milk in TBS-T at 4°C with agitation. The membrane was incubated in secondary antibody (horse radish peroxidase conjugated goat anti-rabbit IgG) diluted to 1:5000 in 8% milk in TBS-T for 4 h at 4°C with agitation. The membrane was washed 3 times for 5 min in TBS-T at 4°C with agitation and incubated for 2 min with WesternBright chemiluminescent detection reagent (Advansta). Exposure time was 30 seconds.

Courtesy of Pierce Young, Rice University, USA