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Product no AS20 4425

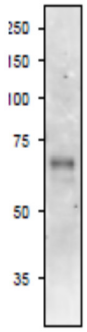
ASN | Glutamine-dependent asparagine synthetase

Product information

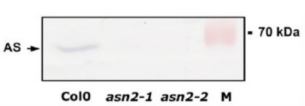
Immunogen	Purified full length, tag cleaved, recombinant *Arabidopsis thaliana* ASN2, UniProt: Q9LV77 , TAIR: AT5G65010
Host	Rabbit
Clonality	Polyclonal
Purity	Total IgG. Protein A purified in PBS, 50% glycerol. Filter sterilized.
Format	Liquid at 2 mg/ml.
Quantity	200 µg
Storage	Store at -20°C; once 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.
Additional information	This antibody reacts with both isoforms: ASN1 and ASN2

Application information

Recommended dilution	assay dependent (ELISA), 1: 100-1: 500, paraffin sections (IHC), 1: 1000-1: 2000 (WB)
Expected | apparent MW	65 | 65 kDa
Confirmed reactivity	*Arabidopsis thaliana, Zea mays*
Predicted reactivity	*Brassica rapa, Camelina sativa, Capsella rubella, Eutrema salsugineum, Oryza sativa, Punica granatum* Species of your interest not listed? Contact us
Not reactive in	No confirmed exceptions from predicted reactivity are currently known
Selected references	Gaufichon et al. (2017). ASN1-encoded asparagine synthetase in floral organs contributes to nitrogen filling in Arabidopsis seeds. Plant J. 2017 Aug;91(3):371-393. doi: 10.1111/tpj.13567. Gaufichon et al. (2013). Arabidopsis thaliana ASN2 encoding asparagine synthetase is involved in the control of nitrogen assimilation and export during vegetative growth. Plant Cell Environ. 2013 Feb;36(2):328-42. doi: 10.1111/j.1365-3040.2012.02576.x.



Arabidopsis thaliana total leaf extract was freshly extracted with 2x SDS-sample buffer (+ 2ME) for SDS-PAGE and denatured with 4X SDS buffer at 95°C for 5 min. Protein was loaded/well and were separated on 10% SDS-PAGE and blotted 1h to PVDF membrane. Blot was blocked with 3 % skim milk/TBS-T, 1h/RT with agitation. Blot was incubated in the primary antibody at a dilution of 1: 1000 in TBS-T for 1h/RT. The antibody solution was decanted and the blot was washed 4 times for 10 min in TBS-T at RT with agitation. Blot was incubated in matching secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated) diluted to 1:10 000 in for 1h/RT with agitation. The blot was washed as above and developed with a chemiluminescent detection reagent, following manufacture's recommendation. Molecular weight of ASN2 is 65 kDa. ASN1 is expressed in floral organs, while ASN2 is expressed in leaf.



Arabidopsis thaliana total leaf extract and respective mutants were freshly extracted with 2x SDS-sample buffer (+ 2ME) for SDS-PAGE and denatured with 4X SDS buffer at 95°C for 5 min. 10 µg of protein was loaded/well abd samples were separated on 10% SDS-PAGE and blotted 1h to PVDF membrane. Blot was blocked with 3 % skim milk/TBS-T, 1h/RT with agitation. Blot was incubated in the primary antibody at a dilution of 1: 2500 in TBS-T for 1h/RT. The antibody solution was decanted and the blot was washed 4 times for 10 min in TBS-T at RT with agitation. Blot was incubated in matching secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated) diluted to 1:10 000 in for 1h/RT with agitation.

The blot was washed as above and developed with a chemiluminescent detection reagent, following manufacture's recommendation.

For images of sections and IHC method protocol, please refer for listed publications.