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Product no AS15 2926

Anti-NAD6 | NADH-ubiquinone oxidoreductase chain 6

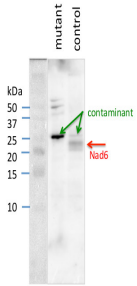
Product information

Immunogen	KLH-conjuagted peptide derived from *Arabdiopsis thaliana* sequence, UniProt: G1C2Y0, TAIR:ATMG00270
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 : 1000 (WB)
Expected | apparent MW	23.4 kDa (*Arabidopsis thaliana*), 25 kDa (*Zea mays*)
Confirmed reactivity	*Arabidopsis thaliana*
Predicted reactivity	*Asclepias syriaca, Batis maritima, Beta vulgaris subsp. maritima, Beta macrocarpa, Bischofia javanica, Brassica carinata, Brassica napus, Brassica oleracea, Brassica rapa, Brexia madagascariensis , California macrophylla, Carallia brachiata, Caryocar glabrum, Celastrus orbiculatus, Chrysobalanus icaco, Citrullus lanatus, Couepia guianensis, Ctenolophon englerianus , Cucurbita pepo, Dasiphora fruticosa, Dissiliaria muelleri, Elaeodendron orientale, Eruca sativa, Fragaria vesca, Geranium sanguineum, Goupia glabra, Gymnosporia senegalensis, Hevea brasiliensis, Hirtella physophora, Humiria balsamifera, Hypseocharis bilobata, Licania heteromorpha, Lupinus luteus, Lupinus mutabilis, Malus domestica , Monsonia emarginata, Neoscortechinia kingii, Nicotiana tabacum, Oryza sativa, Parinari campestris, Phaseolus angularis, Poliothyrsis sinensis, Prunus persica, Pyrus x bretschneideri, Raphanus sativus, Reinwardtia indica, Rhazya stricta, Trigonia nivea, Silene latifolia, Silene noctiflora, Sorghum bicolor, Utricularia gibba, Zea mays, Vigna radiata, Vicia faba* Species of your interest not listed? Contact us
Not reactive in	No confirmed exceptions from predicted reactivity are currently known
Additional information	There is a cross-reaction with a thylakoid protein, therefore this antibody may not be usable for western blots of total leaf extracts
Selected references	Wei et al. (2019). Arabidopsis mtHSC70-1 plays important roles in the establishment of COX-dependent respiration and redox homeostasis. J Exp Bot. 2019 Aug 6. pii: erz357. doi: 10.1093/jxb/erz357. Colas des Francs-Small et al. (2018). Targeted cleavage of nad6 mRNA induced by a modified pentatricopeptide repeat protein in plant mitochondria. Commun Biol. 2018 Oct 11;1:166. doi: 10.1038/s42003-018-0166-8.

Application information



12 µg of *Arabidopsis thaliana* leaf mitochondrial protein (Mini-protean 3, BioRad) denatured with 2x Laemmli solubilisation buffer at 65ºC for 5-10 min were separated on 16 % SDS-PAGE and blotted 45 min to PVDF using semi-dry transfer. Blots were blocked with commercial blocker from Roche at 1:10 dilution for 1h at room temperature (RT) with agitation. Blot was incubated in the primary antibody at a dilution of 1: 1 000 overnight at 4ºC 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 RT with agitation. Blot was incubated in secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated, Agrisera AS09 602)

diluted to 1: 15 000 in for 1h at RT with agitation. The blot was washed as above and developed for min withchemiluminescent detection reagent. Exposure time was 1 min for the blots probed with the purified antibody. Green arrow is pointing out at contamination band present in a mutant.

Courtesy of Dr. Catherine Colas des Francs-Small, UWA, Australia