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product AS01 021A NifH | nitrogenase

## product information

background Nitrogenase is involved in biological fixation of nitrogen to assimilable ammonia.

KLH-conjugated synthetic peptide derived from all known bacterial NifH subunits immunogen

of bacterial nitrogenase enzymes of the FeMoCo type including Synechococcus PCC 8801 (Q55028)

hen polyclonal total IgY in PBS pH 8.0+ 0.02% sodium azide antibody format

quantity 200 µg for reconstitution add 200 µl of sterile water.

storage store at 4°C; make aliquots to avoid working with a stock. Please, remember to spin tubes briefly prior to opening them to avoid any losses that might occur from

liquid material adhering to the cap or sides of the tubes.

tested applications western blot (WB)

additional information antibody concentration is 1.36 µg/µl

## application information

recommended dilution

expected | apparent 27 | 32.5 kDa (Synechococcus sp.)

Anabaena PCC7120, Nostoc sp. Synechococcus sp. 7942, Synechocystis sp. confirmed reactivity

6803, . Trichodesmium sp.

predicted reactivity alpha,gamma,beta proteobacteria, enterobacteria, low GC gram+, high GC gram

+, euryachaeotes, Azotobacter vinelandii (Gram-), cyanobacteria

not reactive in no confirmed exceptions from predicted reactivity known in the moment

additional information This antibody is not suitable for immunolocalization studies on bacterial cultures.

selected references Küpper et al. (2008). Iron limitation in the marine cyanobacterium Trichodesmium reveals new insights into regulation of photosynthesis and nitrogen fixation. New

Phytol. 179: 784-798.

05/28/09 14:28:32 1/2



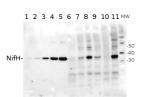
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## application example

Total Trichodesmium sp. protein extract(lanes 6-11, 80 pmol chlorophyll loaded) extracted with PEB (AS08 300), and NifH protein standard (lanes 1-5, 0.05, 0.1, 0.3 0.75 and 1.5 pmol standard loaded) were separated on 4-12% NuPage (Invitrogen) LDS-PAGE and blotted 1h to PVDF. Blots were blocked immediately following transfer in 2% ECL Advance blocking reagent (GE Healthcare) in 20 mM Tris, 137 mM sodium chloride pH 7.6 with 0.1% (v/v) Tween-20 (TBS-T) for 1h at room temperature with agitation. Blots were incubated in the primary antibody at a dilution of 1:40 000 for 1h at room temperature 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 room temperature with agitation. Blots were incubated in secondary antibody (anti-hen IgY horse radish peroxidase conjugated, from Abcam) diluted to 1:50 000 in 2% ECL Advance blocking solution for 1h at room temperature with agitation. The blots were washed as above and developed for 5 min with ECL Advance detection reagent according the manufacturers instructions. Images of the blots were obtained using a CCD imager (FluorSMax, Bio-Rad) and Quantity One software (Bio-Rad).



05/28/09 14:28:32 2/2