Datasheet for ABIN190742

anti-Nitrogenase antibody

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Overview

Quantity:	100 µg
Target:	Nitrogenase (Nifh)
Reactivity:	Rhodopseudomonas palustris
Host:	Chicken
Clonality:	Polyclonal
Application:	Western Blotting (WB)

Product Details

Immunogen:	KLH-conjugated synthetic peptide derived from known bacterial NifH subunits of bacterial nitrogenase enzymes of the FeMoCo type including Synechoccocus sp. Q2JP78 , Trichodesmium theibautii, Anabaena sp. P33178 and Nostoc sp. Q51296
Cross-Reactivity (Details):	No cross-reactivity with: Synechococcus sp. PCC 7942 and Synechocystis
Predicted Reactivity:	Desulfotomaculum reducens (strain MI-1),Clostridium cellobioparum, Frankia sp. (strain EAN1pec), Magnetococcus sp., Methanobacterium thermoautotrophicum, Methanococcus maripaludis, Methylobacterium sp , Rhodopseudomonas palustris TIE-1 strain, alpha,gamma,beta proteobacteria, enterobacteria, low GC gram+, high GC gram +, euryachaeotes, Azotobacter vinelandii (Gram-), Klebsiella pneumonia, cyanobacteria, Enterobacter genera, able to fix atmoshperic nitrogen
Characteristics:	Expected / apparent Molecular Weight of the Antigene: 27 / 32.5 kDa
Purification:	affinity purified

Target Details

Target:	Nitrogenase (Nifh)
Background:	Nitrogenase is involved in biological fixation of atmospheric nitrogen to ammonia. Alternative protein names: nitrogenase component II, nitrogenase Fe protein, nitrogenase reductase, FeMoCo-nitrogenase.
Molecular Weight:	expected: 27 kDa, apparent: 32.5 kDa
UniProt:	P26254, Q2JP78, P33178, Q51296

Application Details

Application Notes:	Recommended Dilution 1 : 2 000 (WB).
Comment:	This antibody is not suitable for immunolocalization studies on bacterial cultures.An enzyme involved in chlorophyll synthesis, present in all cyanobacteria (fixing and non-nitrogen fixing) is a member of the NifH family/superfamily. Agrisera anti-NifH antibody will not show a strong reactivity to this target.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1.36 µg/µL
Buffer:	PBS pH 8.0+ 0.02 % sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	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. Make aliquots to avoid repreated freeze-thaw cycles and working with a stock.
Storage:	4 °C

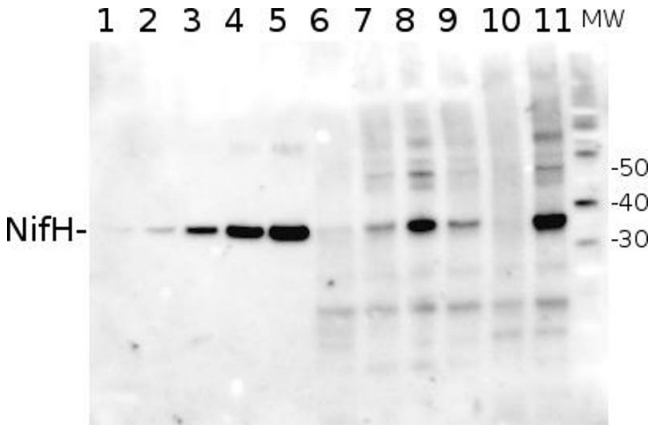
Publications

Product cited in:	Halimatul, Ehira, Awai: "Fatty alcohols can complement functions of heterocyst specific glycolipids in Anabaena sp. PCC 7120." in: **Biochemical and biophysical research communications**, Vol. 450, Issue 1, pp. 178-83, (2014) (PubMed).

Publications

Levitan, Brown, Sudhaus, Campbell, LaRoche, Berman-Frank: "Regulation of nitrogen metabolism in the marine diazotroph Trichodesmium IMS101 under varying temperatures and atmospheric CO2 concentrations." in: **Environmental microbiology**, Vol. 12, Issue 7, pp. 1899-912, (2010) (PubMed).

Images



Western Blotting

Image 1. From left to right: 0.1 pmol, 1.0 pmol of NifH protein standard. Antibody used in 1: 1 000 and 1: 10 000 dilution (ECL Advance GE Healthcare).