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Product Datasheet

Anti-NifH | Nitrogenase iron protein, Gallus, Polyclonal AGR-AS01-021A

Article Name	Anti-NifH Nitrogenase iron protein, Gallus, Polyclonal
Biozol Catalog Number	AGR-AS01-021A
Supplier Catalog Number	AS01-021A
Alternative Catalog Number	AGR-AS01-021A
Manufacturer	Agrisera
Host	Gallus
Category	Antikörper
Application	IF, IHC, WB
Species Reactivity	Bacteria
Immunogen	KLH-conjugated synthetic peptide derived from known bacterial NifH subunits of bacterial nitrogenase enzymes of the FeMoCo type including <i>Synechococcus</i> sp. Q2JP78 , <i>Trichodesmium theibautii</i> , <i>Anabaena</i> sp. P33178 and <i>Nostoc</i> sp. Q51296
Product Description	Nitrogenase is involved in biological fixation of atmospheric nitrogen to ammonia. Alternative protein names: nitrogenase component II, nitrogenase Fe protein, nitrogenase reductase, FeMoCo-nitrogenase....
Clonality	Polyclonal
Molecular Weight	27 32.5 kDa
UniProt	Q2JP78

Purity	Immunogen affinity purified IgY in PBS pH 8 and 0.02 % sodium azide.
Form	Liquid at 1.28 mg/ml
Antibody Type	Polyclonal Antibody
Application Dilute	1 : 500 (IHC), 6 µg/ml (IF), 1 : 2000 (WB)
Application Notes	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. In photobionts like <i>Anabaena</i> sp., low nitrate growth is required to turn on the NifH expression to high enough levels to detect NifH protein. Immunofluorescence protocol Insect dissected tissues (digestive tract, fat body, carrying NifH positive bacteria) of large workers were fixed in cold methanol (20 min, -20C) and then permeabilized in cold acetone (5 min, -20C). Samples were subsequently rinsed three times with PBS with 0.1 % Triton-X 100 at RT (PBST) and incubated for 5 minutes in PBST. This was followed by incubation of tissues for 1 hr with 6 ug/ml affinity purified anti-NifH antibody (Agrisera, AS01 021A) diluted in PBS-TBSA (PBS, 0.1 % v/v Triton-X-100, 1 mg/ml BSA) and 3 washings with PBST. Samples were then incubated in the dark with a goat anti-chicken IgY conjugated to Dylight 488 (Pierce, SA5-10070) for 45 min and were washed twice (PBS, 0.1%v/v Triton-X-100). Finally, the tissues were mounted in Vectashield medium containing DAPI (Vector Laboratories, H-1500) and viewed under a SP5 Leica confocal microscope with 10X and 63X objectives. Courtesy of Drs. Panagiotis Sapountzis and Mariya Zhukova, University of Copenhagen, Danmark