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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	<p>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</p> <p>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</p>