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Product Datasheet

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

Artikelname	Anti-NifH | Nitrogenase iron protein, Gallus, Polyclonal
Artikelnummer	AGR-AS01-021A
Hersteller Artikelnummer	AS01-021A
Alternativnummer	AGR-AS01-021A
Hersteller	Agrisera
Wirt	Gallus
Kategorie	Antikörper
Applikation	IF, IHC, WB
Spezies Reaktivität	Bacteria
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
Produktbeschreibung	Nitrogenase is involved in biological fixation of atmospheric nitrogen to ammonia. Alternative protein names: nitrogenase component II, nitrogenase Fe protein, nitrogenase reductase, FeMoCo-nitrogenase....
Klonalität	Polyclonal
Molekulargewicht	27 | 32.5 kDa
UniProt	Q2JP78

Reinheit	Immunogen affinity purified IgY in PBS pH 8 and 0.02 % sodium azide.
Formulierung	Liquid at 1.28 mg/ml
Antibody Type	Polyclonal Antibody
Application Verdünnung	1 : 500 (IHC), 6 µg/ml (IF), 1 : 2000 (WB)
Anwendungsbeschreibung	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 Anabaena 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