

iNOS Monoclonal Antibody (CXNFT), PE-Cyanine7, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), PE-Cyanine7, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	CXNFT
Conjugate	PE-Cyanine7
Excitation/Emission Max	569/780 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2573499

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.06 µg/test	34 Publications

Product Specific Information

Description: This CXNFT monoclonal antibody reacts to mouse NOS2 (inducible NOS, iNOS). Nitric oxide synthase enzymes catalyze the formation of nitric oxide from L-arginine through an NADPH- and oxygen-dependent mechanism. There are three isoforms of NOS that are encoded by three separate genes. NOS1 (neuronal NOS, nNOS) and NOS3 (endothelial NOS, eNOS) are constitutively expressed, while NOS2 is induced in response to bacterial endotoxins and inflammatory cytokines such as IFN gamma and TNF alpha. NOS2 is expressed by myeloid-derived suppressor cells and M1 macrophages but not alternatively activated M2 macrophages. NOS enzymes are functionally active only when they form homodimers, and dimerization of NOS2 occurs at steady-state concentrations of free Ca²⁺ such that NOS2 is functionally active when it is produced.

Applications Reported: This CXNFT antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

Applications Tested: This CXNFT antibody has been tested by intracellular staining and flow cytometric analysis of stimulated mouse thioglycolate-elicited peritoneal exudate cells using the Intracellular Fixation & Permeabilization Buffer Set (cat. 88-8824) and protocol. Please refer to Best Protocols: Protocol A: Two step protocol for (cytoplasmic) intracellular proteins located under the Resources Tab online. This can be used at less than or equal to 0.06 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from

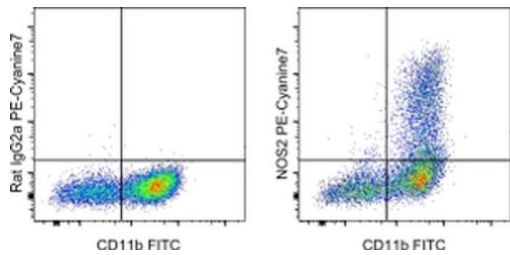
light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency /compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 488-561 nm; Emission: 775 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For iNOS Monoclonal Antibody (CXNFT), PE-Cyanine7, eBioscience™



iNOS Antibody (25-5920-82) in Flow
Intracellular staining of stimulated mouse thioglycolate-elicited peritoneal exudate cells with Anti-Mouse CD11b FITC (Product # 11-0112-41) and 0.03 µg of Rat IgG2a K Isotype Control PE-Cyanine7 (Product # 25-4321-82) (left) or 0.03 µg of Anti-Mouse NOS2 PE-Cyanine7 (right) using the Intracellular Fixation & Permeabilization Buffer Set (Product # 88-8824-00) and protocol. Total viable, as determined by Fixable Viability Dye eFluor® 450 (Product # 65-0863-14), cells were used for analysis.

View more figures on thermofisher.cn

34 References

Flow Cytometry (34)

British journal of pharmacology	Year 2023
Calcaratarin D, a labdane diterpenoid, attenuates mouse asthma via modulating alveolar macrophage function.	
"Published figure using iNOS monoclonal antibody (Product # 25-5920-82) in Flow Cytometry"	
Authors: Liao W,Foo HYC,Tran TNQ,Chai CLL,Wong WSF	
BioMed research international	Year 2022
Anisakis pegreffii Extract Induces Airway Inflammation with Airway Remodeling in a Murine Model System.	Species Mouse
"25-5920-82 was used in Flow Cytometry to confirm that A. pegreffii plays an essential role in causing asthma in mouse models and has the potential to cause similar effects in humans."	
Authors: Choi JH,Kim JY,Yi MH,Kim M,Yong TS	

View more Flow references on thermofisher.cn

More applications with references on thermofisher.cn

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.