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 10^5 to 10^8 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

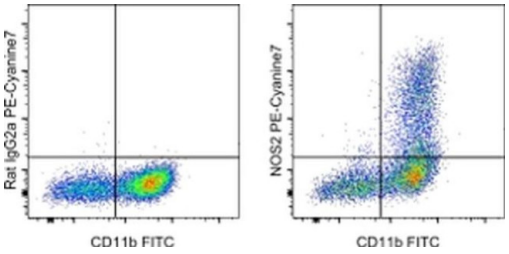
light.

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

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

Year
2023

BioMed research international

***Anisakis pegreffii* Extract Induces Airway Inflammation with Airway Remodeling in a Murine Model System.**

"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

Year
2022

Species
Mouse

View more Flow references on thermofisher.cn

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