

iNOS Monoclonal Antibody (CXNFT), APC-eFluor™ 780, 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), APC-eFluor™ 780, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	CXNFT
Conjugate	APC-eFluor™ 780
Excitation/Emission Max	756/785 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_2716962

Applications	Tested Dilution	Publications
Immunohistochemistry (PFA fixed) (IHC (PFA))	-	1 Publication
Flow Cytometry (Flow)	0.06 µg/test	16 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 and Permeabilization Buffer Set (Product # 88-8824-00) and protocol. The Foxp3/Transcription Factor Staining Buffer Set (Product # 00-5523-00) may also be used with similar results. 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 10⁴ to

10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

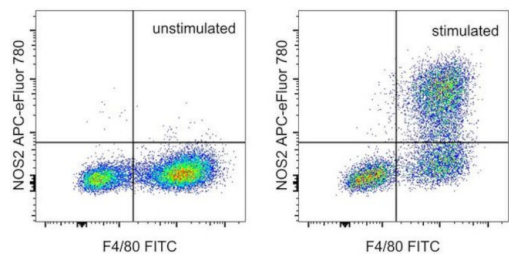
APC-eFluor™ 780 emits at 780 nm and is excited with the Red laser (633 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

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 (Product # 00-8222) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 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: 633-647 nm; Emission: 780 nm; Laser: Red Laser.

Product Images For iNOS Monoclonal Antibody (CXNFT), APC-eFluor™ 780, eBioscience™



iNOS Antibody (47-5920-82) in Flow

Mouse thioglycolate-elicited peritoneal exudate cells were unstimulated (left) or stimulated overnight with LPS (Product #00-4976) (right) then surface stained with Anti-Mouse F4/80 FITC (Product # 11-4801). Cells were fixed and permeabilized using the Intracellular Fixation and Permeabilization Buffer Set (Product # 88-8824) then intracellularly stained with 0.03 µg of Anti-Mouse NOS2 APC-eFluor® 780 (Product # 47-5920-82). Total viable cells, as determined by Fixable Viability Dye eFluor® 450 (Product # 65-0863), were used for analysis.

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Immunohistochemistry (PFA fixed) (1)

British journal of cancer	Year 2023
Th2 cells inhibit growth of colon and pancreas cancers by promoting anti-tumorigenic responses from macrophages and eosinophils.	Species Mouse
"47-5920-82 was used in Immunohistochemistry (PFA fixed) to demonstrate the significance of Th2 cells, eosinophils and IL-5 in the inhibition of gastrointestinal tumor growth, and pointed toward tumor microenvironment reprogramming as a Th2 cell-mediated anti-tumorigenic mechanism of action."	Dilution 1:200
Authors: Jacenik D,Karagiannidis I,Beswick EJ	

Flow Cytometry (16)

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 # 47-5920-82) in Flow Cytometry"	
Authors: Liao W,Foo HYC,Tran TNQ,Chai CLL,Wong WSF	

International journal of molecular sciences	Year 2022
MK2 Promotes the Development and Progression of Pancreatic Neuroendocrine Tumors Mediated by Macrophages and Metabolomic Factors.	Species Mouse
"47-5920-82 was used in flow cytometry to identify MK2 as a potent driver of immune response and metabolic effectors in PNETs, suggesting it is a potential therapeutic target for patients with PNETs."	Dilution 1:200
Authors: Jacenik D,Lebish EJ,Beswick EJ	

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