

iNOS Monoclonal Antibody (CXNFT), eFluor™ 450, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), eFluor™ 450, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	CXNFT
Conjugate	eFluor™ 450
Excitation/Emission Max	405/445 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_2802293

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	1.0 µg/test	15 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.

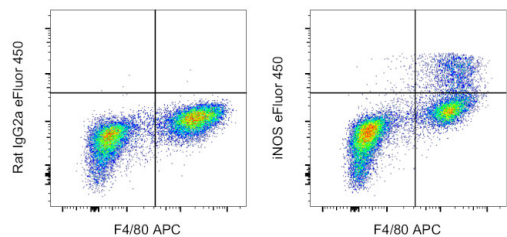
Applications Reported: This CXNFT antibody has been reported for use in flow cytometric analysis.

Applications Tested: This CXNFT antibody has been tested by flow cytometric analysis of thioglycolate-elicited peritoneal macrophages using the Intracellular Fixation & Permeabilization Buffer Set (Product # 88-8824-00) and protocol. Please refer to "Staining Intracellular Antigens for Flow Cytometry, Protocol A: Two step protocol for intracellular (cytoplasmic) proteins" located at thermofisher.com. This may be used at less than or equal to 1.0 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.

eFluor 450 is an alternative to Pacific Blue. eFluor 450 emits at 446 nm and is excited with the violet laser line (405 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

Excitation: 405 nm; Emission: 445 nm; Laser: Violet Laser

Product Images For iNOS Monoclonal Antibody (CXNFT), eFluor™ 450, eBioscience™



iNOS Antibody (48-5920-82) in Flow
BALB/c mouse thioglycolate-elicited peritoneal exudate cells were stimulated overnight with LPS (Product # 00-4976-03). Cells were then stained using the Intracellular Fixation & Permeabilization Buffer Set (Product # 88-8824-00) and protocol with F4/80 Monoclonal Antibody, APC (Product # 17-4801-82) and 0.5 µg of Rat IgG2a kappa Isotype Control, eFluor 450 (Product # 48-4321-82) (left) or 0.5 µg of iNOS Monoclonal Antibody, eFluor 450 (right). Total viable cells were used for analysis, as determined by Fixable Viability Dye eFluor 506 (Product # 65-0866-18).

View more figures on thermofisher.com

16 References

Immunocytochemistry (1)

<p>Journal of neuroinflammation</p> <p>Annexin A1 protects against cerebral ischemia-reperfusion injury by modulating microglia/macrophage polarization via FPR2/ALX-dependent AMPK-mTOR pathway.</p> <p>"Published figure using iNOS monoclonal antibody (Product # 48-5920-82) in Immunocytochemistry"</p> <p>Authors: Xu X,Gao W,Li L,Hao J,Yang B,Wang T,Li L,Bai X,Li F,Ren H,Zhang M,Zhang L,Wang J,Wang D,Zhang J, Jiao L</p>	<p>Year 2021</p>
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Flow Cytometry (15)

<p>British journal of pharmacology</p> <p>Calcaratarin D, a labdane diterpenoid, attenuates mouse asthma via modulating alveolar macrophage function.</p> <p>"Published figure using iNOS monoclonal antibody (Product # 48-5920-82) in Flow Cytometry"</p> <p>Authors: Liao W,Foo HYC,Tran TNQ,Chai CLL,Wong WSF</p>	<p>Year 2023</p>
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<p>Immunity</p> <p>Nitric oxide controls proliferation of Leishmania major by inhibiting the recruitment of permissive host cells.</p> <p>"Published figure using iNOS monoclonal antibody (Product # 48-5920-82) in Flow Cytometry"</p> <p>Authors: Formaglio P,Alabdullah M,Siokis A,Hands Schuh J,Sauerland I,Fu Y,Krone A,Gintschel P,Stettin J,Heyde S, Mohr J,Philipsen L,Schröder A,Robert PA,Zhao G,Khailaie S,Dudeck A,Bertrand J,Späth GF,Kahlfuß S,Bousso P, Schraven B,Huehn J,Binder S,Meyer-Hermann M,Müller AJ</p>	<p>Year 2021</p>
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