

iNOS Monoclonal Antibody (CXNFT), APC, 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, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	CXNFT
Conjugate	APC
Excitation/Emission Max	651/660 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_2573244

Applications	Tested Dilution	Publications
Western Blot (WB)	-	1 Publication
Flow Cytometry (Flow)	0.06 µg/test	36 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.

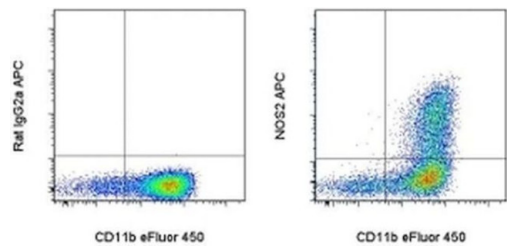
Applications Reported: This CXNFT antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

Applications Tested: This CXNFT antibody has been tested by intracellular staining and flow cytometric analysis of LPS-stimulated mouse thioglycolate-elicited peritoneal exudate cells using the Intracellular Fixation and Permeabilization Buffer Set (Product # 88-8824-00) 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.

Excitation: 633-647 nm; Emission: 660 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

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



iNOS Antibody (17-5920-82) in Flow
Mouse thioglycolate-elicited peritoneal exudate cells were stimulated overnight with LPS then surface stained with Anti-Mouse CD11b eFluor® 450 (Product # 48-0112-82) followed by fixation and permeabilization with the Intracellular Fixation & Permeabilization Buffer Set (Product # 88-8824-00). The cells were then intracellularly stained with 0.03 µg of Rat IgG2a K Isotype Control APC (Product # 17-4321-81) (left) or 0.03 µg of Anti-Mouse NOS2 APC (right). Total viable cells were used for analysis.

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37 References

Western Blot (1)

<p>Molecular cancer research : MCR</p> <p>AXL Is a Key Factor for Cell Plasticity and Promotes Metastasis in Pancreatic Cancer.</p> <p>"17-5920-82 was used in Western Blot to implicate AXL as a marker of undifferentiated PDA cells and a target for therapy."</p> <p>Authors: Du W,Phinney NZ,Huang H,Wang Z,Westcott J,Toombs JE,Zhang Y,Beg MS,Wilkie TM,Lorens JB,Brekken RA</p>	<p>Year 2021</p> <p>Species Mouse</p>
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Flow Cytometry (36)

<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 # 17-5920-82) in Flow Cytometry"</p> <p>Authors: Liao W,Foo HYC,Tran TNQ,Chai CLL,Wong WSF</p>	<p>Year 2023</p>
<p>Acta biomaterialia</p> <p>ROS-responsive polymer nanoparticles with enhanced loading of dexamethasone effectively modulate the lung injury microenvironment.</p> <p>"Published figure using iNOS monoclonal antibody (Product # 17-5920-82) in Flow Cytometry"</p> <p>Authors: Muhammad W,Zhu J,Zhai Z,Xie J,Zhou J,Feng X,Feng B,Pan Q,Li S,Venkatesan R,Li P,Cao H,Gao C</p>	<p>Year 2022</p>

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