

# iNOS Monoclonal Antibody (CXNFT), Alexa Fluor™ 700, eBioscience™

## Product Details

Size	100 µg
Species Reactivity	Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), Alexa Fluor™ 700, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	CXNFT
Conjugate	Alexa Fluor™ 700
Excitation/Emission Max	696/719 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_2848474

## Applications

## Tested Dilution

## Publications

Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	0.125 µg/test	28 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 Ca<sup>2+</sup> such that NOS2 is functionally active when it is produced.

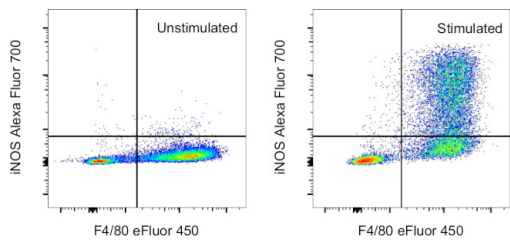
**Applications Reported:** This CXNFT antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

**Applications Tested:** This CXNFT antibody has been tested by intracellular staining followed by flow cytometric analysis of stimulated thioglycolate-elicited peritoneal macrophages using the Foxp3/Transcription Factor Staining Buffer Set (Product # 00-5523-00) and protocol. Please refer to "Staining Intracellular Antigens for Flow Cytometry, Protocol B: One step protocol for intracellular (nuclear) proteins" located at Flow Protocols . This may be used at less than or equal to 0.125 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<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Alexa Fluor 700 emits at 723 nm and can be excited with the red laser (633-647 nm). Most instruments will require a 685 LP mirror and 710/20 band pass filter. Please make sure that your instrument is capable of detecting this fluorochrome.

Excitation: 633-647 nm; Emission: 723 nm; Laser: Red Laser.

Product Images For iNOS Monoclonal Antibody (CXNFT), Alexa Fluor™ 700, eBioscience™



**iNOS Antibody (56-5920-82) in Flow**  
BALB/c mouse thioglycolate-elicited peritoneal exudate cells were unstimulated (left) or stimulated overnight with LPS (Product # 00-4976-03) (right). Cells were then stained intracellularly, using the Foxp3/Transcription Factor Staining Buffer Set (Product # 00-5523-00) and protocol, with F4/80 Monoclonal Antibody, eFluor 450 (Product # 48-4801-82) and 0.06 µg of iNOS Monoclonal Antibody, Alexa Fluor 700. Total viable cells were used for analysis, as determined by Fixable Viability Dye eFluor 780 (Product # 65-0865-18).

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29 References

Immunocytochemistry (1)

Journal of neuroinflammation	Year 2021
<b>Annexin A1 protects against cerebral ischemia-reperfusion injury by modulating microglia/macrophage polarization via FPR2/ALX-dependent AMPK-mTOR pathway.</b>	
"Published figure using iNOS monoclonal antibody (Product # 56-5920-82) in Immunocytochemistry"	
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	

Flow Cytometry (28)

British journal of pharmacology	Year 2023
<b>Calcaratarin D, a labdane diterpenoid, attenuates mouse asthma via modulating alveolar macrophage function.</b>	
"Published figure using iNOS monoclonal antibody (Product # 56-5920-82) in Flow Cytometry"	
Authors: Liao W,Foo HYC,Tran TNQ,Chai CLL,Wong WSF	

Immunity	Year 2021
<b>Nitric oxide controls proliferation of Leishmania major by inhibiting the recruitment of permissive host cells.</b>	
"Published figure using iNOS monoclonal antibody (Product # 56-5920-82) in Flow Cytometry"	
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	

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