

iNOS Polyclonal Antibody

Product Details		
Size	100 μL	
Species Reactivity	Human, Mouse	
Published Species	Rat, Sheep, Cat, Human, Mouse	
Host/Isotype	Rabbit / IgG	
Class	Polyclonal	
Туре	Antibody	
Conjugate	Unconjugated	
Immunogen	Synthetic peptide corresponding to residues C K(1131) K G S A L E E P K A T R L(1144) of mouse macrophage NOS.	
Form	Liquid	
Concentration	Conc. Not Determined	
Storage buffer	PBS, whole serum	
Contains	0.05% sodium azide	
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles	
RRID	AB_2152737	

Applications	Tested Dilution	Publications
Western Blot (WB)	1:2,000	25 Publications
Immunohistochemistry (IHC)	-	34 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:200	12 Publications
Immunohistochemistry (Frozen) (IHC (F))	1:500	2 Publications
Immunocytochemistry (ICC/IF)	1:250	5 Publications
Flow Cytometry (Flow)	-	2 Publications

Product Specific Information

PA3-030A detects inducible nitric oxide synthase (iNOS) from human and mouse tissues. This antibody does not detect endothelial NOS (eNOS) or brain NOS (bNOS).

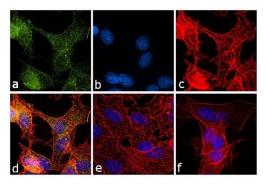
PA3-030A has been successfully used in Western blot and immunohistochemistry (paraffin and frozen) procedures. By Western blot, this antibody detects an ~130 kDa protein representing iNOS in induced RAW 264.7 cell extracts.

The PA3-030A immunogen is a synthetic peptide corresponding to residues C K(1131) K G S A L E E P K A T R L(1144) of mouse macrophage NOS.

PA3-030A can be used with blocking peptide PEP-008.

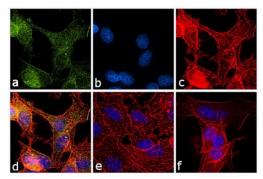
Antibodies to this protein (and modification) were previously sold as part of a Thermo Scientific Cellomics High Content Screening Kit. This replacement antibody is now recommended for researchers who need an antibody for high content cell based assays. It has been thoroughly tested and validated for cellular immunofluorescence (IF) applications. Further optimization including the selection of the most appropriate fluorescent Dylight conjugated secondary antibody may have to be performed for your high content assay.

Product Images For iNOS Polyclonal Antibody



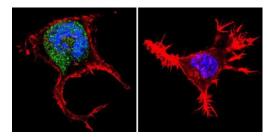
iNOS Antibody (PA3-030A)

Detection of altered subcellular localization of the target protein by cell treatment demonstrates antibody specificity. Immunofluorescence analysis of iNOS using iNOS Polyclonal Antibody (Product # PA3-030A), shows localization of iNOS in both cytoplasm and nucleus of A549 cells upon treatment with TNF-alpha, IFN-gamma and Interleukin-1 beta. {TM}



iNOS Antibody (PA3-030A) in ICC/IF

Immunofluorescence analysis of iNOS was performed using 70% confluent log phase A549 cells treated with a combination of TNF- (5 ng/mL), IFN (50 U/mL) and IL-1 (50 U/mL) for 18 h. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with iNOS Rabbit Polyclonal Antibody (Product # PA3-030A) at 1:250 dilution in 0.1% BSA and incubated for 3 hours at room temperature and then labeled with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing cytoplasmic and nuclear localization. Panel e shows the untreated cells with no signal. Panel f represents the no primary control. The images were captured at 60X magnification.



iNOS Antibody (PA3-030A) in ICC/IF

Immunofluorescent analysis of iNOS using Anti-iNOS Polyclonal Antibody (Product # PA3-030A) shows staining in Neuro-2a Cells. iNOS staining (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with or an antibody recognizing iNOS (Product # PA3-030A) at a dilution of 1:200 over night at 4°C, washed with PBS and incubated with a DyLight-488 conjugated secondary antibody (Product # 35552, Goat Anti-Rabbit). Images were taken at 60X magnification.

View more figures on thermofisher.com

№ 80 References

Western Blot (25)

Bioactive materials

Biodegradable magnesium materials regulate ROS-RNS balance in proinflammatory macrophage environment.

Year 2023

"Published figure using iNOS polyclonal antibody (Product # PA3-030A) in Western Blot"

Authors: Kwesiga MP, Gillette AA, Razaviamri F, Plank ME, Canull AL, Alesch Z, He W, Lee BP, Guillory RJ

Nature communications

Year 2022

Adipocyte-derived lactate is a signalling metabolite that potentiates adipose macrophage inflammation via targeting PHD2.

"Published figure using iNOS polyclonal antibody (Product # PA3-030A) in Western Blot"

Authors: Feng T,Zhao X,Gu P,Yang W,Wang C,Guo Q,Long Q,Liu Q,Cheng Y,Li J,Cheung CKY,Wu D,Kong X,Xu Y,Ye D,Hua S,Loomes K,Xu A,Hui X

View more WB references on thermofisher.com

Immunohistochemistry (34)

Nature communications

Adipocyte-derived lactate is a signalling metabolite that potentiates adipose macrophage inflammation via targeting PHD2.

"Published figure using iNOS polyclonal antibody (Product # PA3-030A) in Western Blot"

Authors: Feng T,Zhao X,Gu P,Yang W,Wang C,Guo Q,Long Q,Liu Q,Cheng Y,Li J,Cheung CKY,Wu D,Kong X,Xu Y,Ye D.Hua S.Loomes K.Xu A.Hui X

Year 2022

Nature communications

Dual functions of microRNA-17 in maintaining cartilage homeostasis and protection against osteoarthritis.

"Published figure using iNOS polyclonal antibody (Product # PA3-030A) in Immunohistochemistry"

Authors: Zhang Y,Li S,Jin P,Shang T,Sun R,Lu L,Guo K,Liu J,Tong Y,Wang J,Liu S,Wang C,Kang Y,Zhu W,Wang Q, Zhang X, Yin F, Sun YE, Cui L

Year 2022

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More applications with references on thermofisher.com

IHC (P) (12)

IHC (F) (2) ICC/IF (5)

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