Product Datasheet

iNOS Antibody (4E5) - BSA Free
NBP2-22119

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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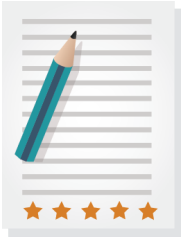
Updated 10/23/2024 v.20.1



NBP2-22119

iNOS Antibody (4E5) - BSA Free

Product Information

Unit Size	0.1 ml
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	4E5
Preservative	0.02% Sodium Azide
Isotype	IgG1
Purity	Protein A purified
Buffer	PBS
Target Molecular Weight	131 kDa

Product Description

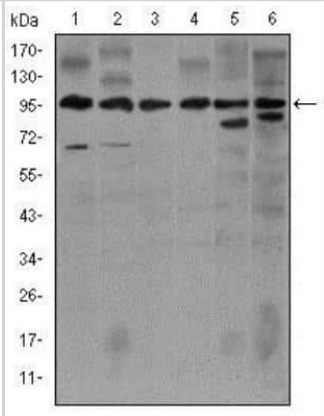
Host	Mouse
Gene ID	4843
Gene Symbol	NOS2
Species	Human, Mouse
Immunogen	iNOS Antibody (4E5) was made to a purified recombinant fragment of human iNOS (C-terminus) expressed in E. coli. [UniProt# P35228]

Product Application Details

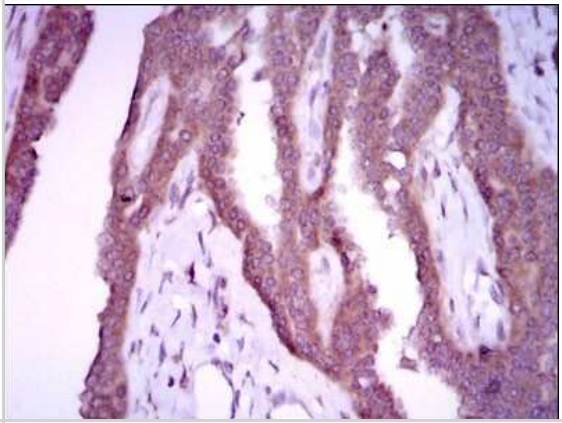
Applications	Western Blot, ELISA, Flow Cytometry, Flow (Intracellular), Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1:500-1:2000, Flow Cytometry 1:200-1:400, ELISA 1:10000, Immunohistochemistry reported in scientific literature (PMID 29891729), Immunohistochemistry-Paraffin 1:200-1:1000, Immunohistochemistry-Frozen reported in scientific literature (PMID 32780728), Flow (Intracellular)
Application Notes	The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors.

Images

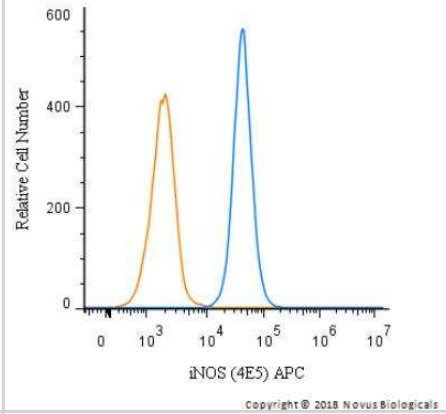
Western Blot: iNOS Antibody (4E5) [NBP2-22119] - Analysis using iNOS mouse mAb against Jurkat (1), Jurkat (2), A549 (3), HeLa (4), NIH3T3 (5) and MCF-7 (6) cell lysate.



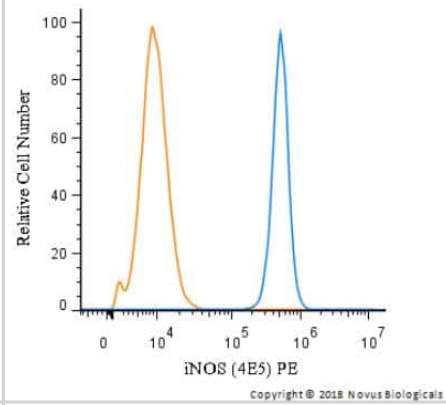
Immunohistochemistry-Paraffin: iNOS Antibody (4E5) [NBP2-22119] - Analysis of paraffin-embedded breast cancer tissues using iNOS mouse mAb with DAB staining.



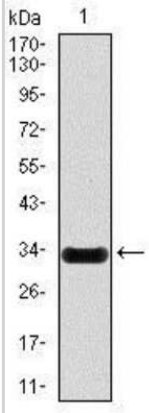
Flow Cytometry: iNOS Antibody (4E5) [NBP2-22119] - An intracellular stain was performed on A549 cells with NBP2-22119APC (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated with antibody at 1 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to allophycocyanin (APC).



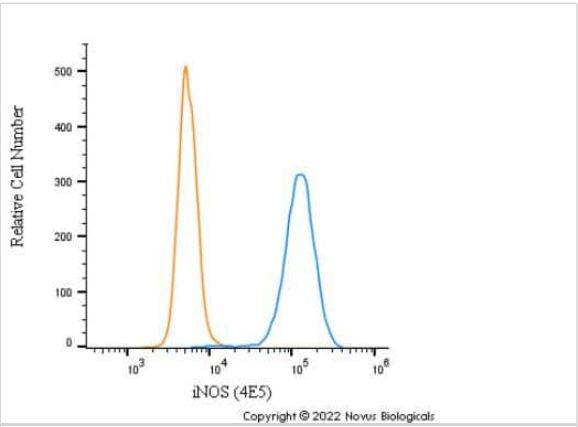
Flow Cytometry: iNOS Antibody (4E5) [NBP2-22119] - An intracellular stain was performed on A549 cells with NBP2-22119PE (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated with antibody at 2.5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to phycoerythrin (PE).



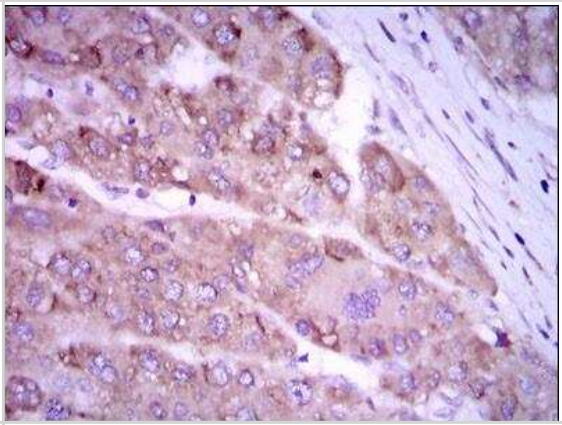
Western Blot: iNOS Antibody (4E5) [NBP2-22119] - Analysis using iNOS mAb against human iNOS (AA: 997-1058) recombinant protein. (Expected MW is 32.6 kDa)



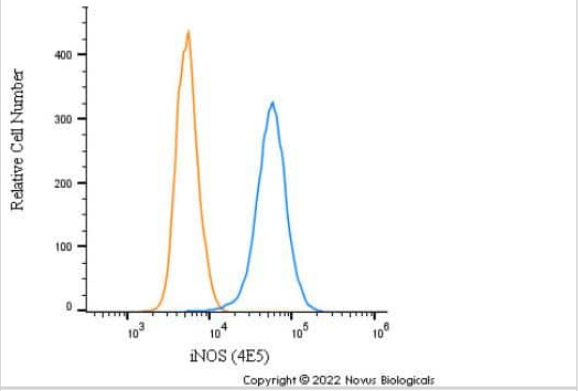
Flow Cytometry: iNOS Antibody (4E5) - BSA Free [NBP2-22119] - An intracellular stain was performed on NIH3T3 cells with iNOS Antibody (4E5) NBP2-22119 (blue) and a matched isotype control MAB002 (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 1 ug/mL for 30 minutes at room temperature, followed by Mouse IgG (H+L) Cross-Adsorbed Secondary Antibody, Dylight 550 (84540, Thermo Fisher).



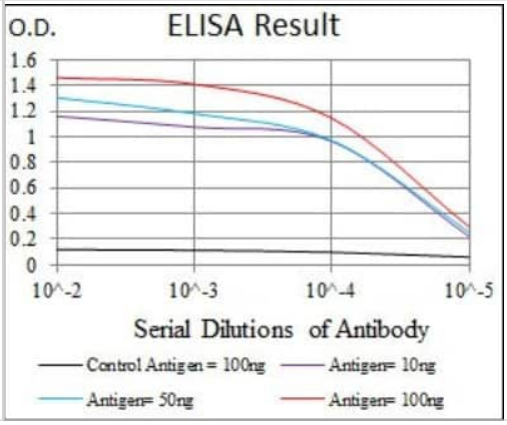
Immunohistochemistry-Paraffin: iNOS Antibody (4E5) [NBP2-22119] - Analysis of paraffin-embedded liver cancer tissues using iNOS mouse mAb with DAB staining.



Flow Cytometry: iNOS Antibody (4E5) - BSA Free [NBP2-22119] - An intracellular stain was performed on Caco-2 cells with iNOS Antibody (4E5) NBP2-22119 (blue) and a matched isotype control MAB002 (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 1 ug/mL for 30 minutes at room temperature, followed by Mouse IgG (H+L) Cross-Adsorbed Secondary Antibody, Dylight 550 (84540, Thermo Fisher).



ELISA: iNOS Antibody (4E5) [NBP2-22119] - Red: Control Antigen (100ng); Purple: Antigen (10ng); Green: Antigen (50ng); Blue: Antigen (100ng).



Publications

Hu C, Chu C, Liu L et al. Dissecting the microenvironment around biosynthetic scaffolds in murine skin wound healing Science Advances 2021-05-28 [PMID: 34039601] (Flow Cytometry, In vivo assay)

Marques RM, Gonzalez-Nunez M, Walker ME et al. Loss of 15-lipoxygenase disrupts T(reg) differentiation altering their pro-resolving functions Cell Death & Differentiation 2021-11-01 [PMID: 34040168] (In vivo assay)

Jim Middelburg, Soroush Ghaffari, Tom A W Schoufour, Marjolein Sluijter, Gaby Schaap, Büsra Göynük, Benedetta M Sala, Lejla Al-Tamimi, Ferenc Scheeren, Kees L M C Franken, Jimmy J L L Akkermans, Birol Cabukusta, Simone A Joosten, Ian Derksen, Jacques Neefjes, Sjoerd H van der Burg, Adnane Achour, Ruud H M Wijdeven, Jon Weidanz, Thorbald van Hall The MHC-E peptide ligands for checkpoint CD94/NKG2A are governed by inflammatory signals, whereas LILRB1/2 receptors are peptide indifferent. Cell reports 2024-01-01 [PMID: 38048225]

Hor□Yue Tan, Ning Wang, Cheng Zhang, Yau□Tuen Chan, Man□Fung Yuen, Yibin Feng Lysyl Oxidase□Like 4 Fosters an Immunosuppressive Microenvironment During Hepatocarcinogenesis Hepatology (Baltimore, Md.) 2021-05-21 [PMID: 33068461]

He Z, Greven J, Shi Y et al. Extracellular vesicles derived from endothelial cells modulate macrophage phenotype in vitro European journal of medical research 2023-11-09 [PMID: 37946271]

Cheng H, Sung W, Tseng C, Lee L Bacillus amyloliquefaciens exopolysaccharides promote the defensive and protective functions of intestinal epithelial cells AUTHOREA 2023-01-01

Roy R, Zayas J, Mohamed MF et al. IL-10 Dysregulation Underlies Chemokine Insufficiency, Delayed Macrophage Response, and Impaired Healing in Diabetic Wounds Journal of Investigative Dermatology 2022-03-01 [PMID: 34517005]

Zhang Y, Li W, Guo S et al. FBXO22 Mediates the NGF/TRKA Signaling Pathway in Bone Metastases in Prostate Cancer The American journal of pathology 2023-06-08 [PMID: 37301536] (IHC, Mouse)

You M, Song Y, Chen J et al. Combined exposure to benzo(a)pyrene and dibutyl phthalate aggravates pro-inflammatory macrophage polarization in spleen via pyroptosis involving cathepsin B The Science of the total environment 2023-04-14 [PMID: 37061049]

Zhao S, Zhou L, Wang Q et al. Elevated branched-chain amino acid promotes atherosclerosis progression by enhancing mitochondrial-to-nuclear H2O2-disulfide HMGB1 in macrophages Redox biology 2023-04-05 [PMID: 37058999] (IHC-P, Mouse)

Kong Y, Shi W, Zheng L et al. In situ delivery of a curcumin-loaded dynamic hydrogel for the treatment of chronic peripheral neuropathy Journal of controlled release : official journal of the Controlled Release Society 2023-04-08 [PMID: 37028453] (WB, Rat)

Zheng X, Chen L, Tan J et al. Effect of micro/nano-sheet array structures on the osteo-immunomodulation of macrophages Regenerative biomaterials 2022-10-04 [PMID: 36284748]

More publications at http://www.novusbio.com/NBP2-22119

Procedures

Immunohistochemistry-Paraffin Protocol for iNOS Antibody (NBP2-22119)
Immunohistochemistry-Paraffin Embedded Sections

Antigen Unmasking:
Bring slides to a boil in 10 mM sodium citrate buffer (pH 6.0) then maintain at a sub-boiling temperature for 10 minutes. Cool slides on bench-top for 30 minutes (keep slides in the sodium citrate buffer at all times).

Staining:
1. Wash sections in deionized water three times for 5 minutes each.
2. Wash sections in PBS for 5 minutes.
3. Block each section with 100-400 ul blocking solution (1% BSA in PBS) for 1 hour at room temperature.
4. Remove blocking solution and add 100-400 ul diluted primary antibody. Incubate overnight at 4 C.
5. Remove antibody solution and wash sections in wash buffer three times for 5 minutes each.
6. Add 100-400 ul HRP polymer conjugated secondary antibody. Incubate 30 minutes at room temperature.
7. Wash sections three times in wash buffer for 5 minutes each.
8. Add 100-400 ul DAB substrate to each section and monitor staining closely.
9. As soon as the sections develop, immerse slides in deionized water.
10. Counterstain sections in hematoxylin.
11. Wash sections in deionized water two times for 5 minutes each.
12. Dehydrate sections.
13. Mount coverslips.

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Products Related to NBP2-22119

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)
H00004843-Q01-10ug	Recombinant Human iNOS GST (N-Term) Protein

Limitations
This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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