

## DATASHEET

# iNOS Mouse Monoclonal Antibody(C2875)

CAT. NO. AMA02487

### KEY FEATURES

Target	iNOS	Source / Host	Mouse
Reactivity	Human, Mouse	Clonality	Monoclonal
Applications	WB, IHC, FC	Conjugation	Unconjugated
Form / Buffer	Mouse IgG1. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.	Storage	at-20°C

### BACKGROUND

Produces nitric oxide (NO) which is a messenger molecule with diverse functions throughout the body which is a messenger molecule with diverse functions throughout the body . In macrophages, NO mediates tumoricidal and bactericidal actions. Also has nitrosylase activity and mediates cysteine S-nitrosylation of cytoplasmic target proteins such PTGS2/COX2 . As component of the iNOS-S100A8/9 transnitrosylase complex involved in the selective inflammatory stimulus-dependent S-nitrosylation of GAPDH on 'Cys-247' implicated in regulation of the GAIT complex activity and probably multiple targets including ANXA5, EZR, MSN and VIM . Involved in inflammation, enhances the synthesis of pro-inflammatory mediators such as IL6 and IL8 .

### APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
IHC	1:100 - 1:500
FC	1:100 - 1:200

\*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

### PRODUCT OVERVIEW

Description	Mouse monoclonal to iNOS
Specificity	Recognizes endogenous levels of iNOS protein
Antibody Type	Primary antibody
Immunogen	Recombinant fusion protein of human iNOS expressed in E. Coli
Purification	This antibody is purified through a protein G column.
Molecular Weight	Predicted: 131 kD; Observed: 100 kD kD
Form/Buffer	Mouse IgG1. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	NOS2A; Nitric oxide synthase, inducible; Hepatocyte NOS; HEP-NOS; Inducible NO synthase; Inducible NOS; iNOS; NOS type II; Peptidyl-cysteine S-nitrosylase NOS2
Gene Symbol	NOS2
Entrez Gene	4843(Human); 24599(Rat)
SwissProt	P35228(Human); P29477(Mouse)

\*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact [info@arexbio.com](mailto:info@arexbio.com) or your local distributor.

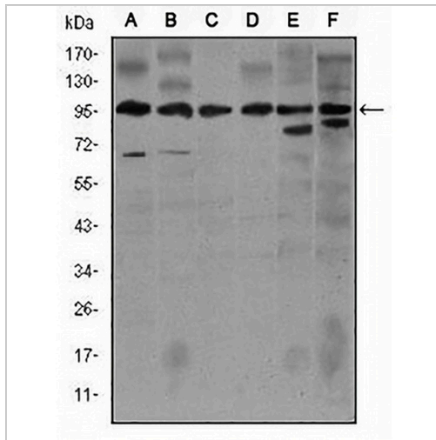
\*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

**DATASHEET**

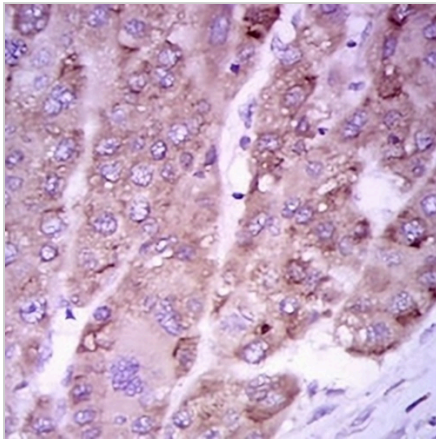
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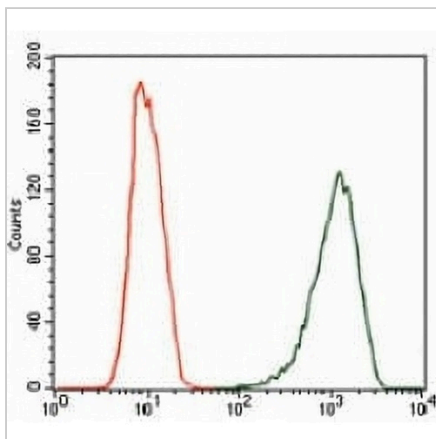
**DATA**



Western blot analysis of iNOS expression in Jurkat (A), Jurkat (B), A549 (C), HeLa (D), NIH3T3 (E), MCF7 (F) whole cell lysates. (Predicted band size: 131 kD; Observed band size: 100 kD)



Immunohistochemical analysis of iNOS staining in human liver cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Flow cytometric analysis of MCF7 cells using Anti-iNOS Antibody (green) and negative control (red).

**STORAGE**

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

**NOTE**

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.