

## PE Anti-Mouse Nos2(iNos) Antibody[W16030C]

**Catalog Number:** AN00993D

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

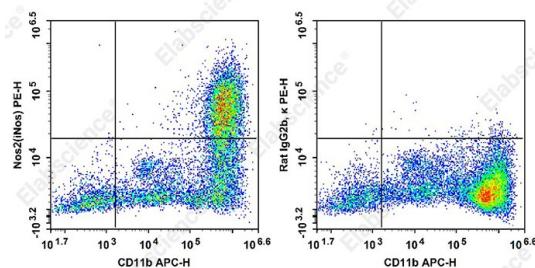
### Description

<b>Reactivity</b>	Mouse
<b>Host</b>	Rat
<b>Isotype</b>	Rat IgG2b, κ
<b>Clone No.</b>	W16030C
<b>Isotype Control</b>	PE Rat IgG2b, κ Isotype Control[LTF-2] [Product E-AB-F09842D]
<b>Conjugation</b>	PE
<b>Conjugation Information</b>	PE is designed to be excited by the Blue (488 nm), Green (532 nm) and Yellow-Green (561 nm) lasers and detected using an optical filter centered near 575 nm (e.g., a 585/42 nm bandpass filter).
<b>Storage Buffer</b>	Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer.

### Applications

Applications	Recommended usage
FCM	Each lot of this antibody is quality control tested by flow cytometric analysis. <b>The amount of the reagent is suggested to be used 5 µL of antibody per test (million cells in 100 µL staining volume or per 100 µL of whole blood).</b> Please check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for individual use.

### Data



LPS-stimulated (16h) murine abdominal macrophages elicited by Thioglycolate are stained with APC Anti-Mouse/Human CD11b Antibody[M1/70] and intracellular stained with PE Anti-Mouse Nos2(iNos) Antibody[W16030C] (left) or PE Rat IgG2b Isotype Control (right).

### Preparation & Storage

<b>Storage</b>	Keep as concentrated solution. This product can be stored at 2-8°C for 12 months. Please protect from prolonged exposure to light and do not freeze.
<b>Shipping</b>	Ice bag

### Antigen Information

<b>Alternate Names</b>	Nitric oxide synthase 2;nitric oxide synthase 2A;NOS2A;HEP-NOS;inducible nitric oxide synthase (iNOS);Nitric oxide synthase;inducible;Inducible NOS
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Rev. V1.3

<b>Uniprot ID</b>	P29477
<b>Gene ID</b>	4843
<b>Background</b>	<p>Nitric Oxide Synthase 2 (NOS2), also known as inducible NOS (iNOS), contains an N-terminal oxygenase domain and a C-terminal reductase domain, and functions to catalyze the formation of nitric oxide (NO) from L-arginine. NO is a reactive free radical which acts as a biologic messenger with diverse functions throughout the body, such as neurotransmission, antimicrobial, and antitumor activity. NOS2 is involved in inflammatory responses and enhances the synthesis of PGE2 and proinflammatory cytokines such as IL-6 and IL-8. The NOS2 gene is highly expressed in liver and is inducible by a combination of bacterial endotoxins and certain cytokines, including IL-1, IFNy and TNF<math>\alpha</math>. NOS2 also has nitrosylase activity and mediates cysteine S-nitrosylation of cytoplasmic target proteins such as COX2.</p>

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