

iNOS Rabbit pAb

CatalogNo: YT3169

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- IF, WB, IHC, ELISA

MW

- 131kD (Observed)

Isotype

- IgG

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

IF 1:50-200

WB 1:500-2000

ELISA 1:10000-20000

IHC 1:50-300

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen The antiserum was produced against synthesized peptide derived from human iNOS. AA range:117-166

Specificity NOS2 Polyclonal Antibody detects endogenous levels of NOS2 protein.

Target Information

Gene name NOS2, INOS

Protein Name Nitric oxide synthase inducible

Organism	Gene ID	UniProt ID
Human	4843 ;	P35228 ;
Mouse	18126 ;	P29477 ;
Rat	24599 ;	Q06518 ;

Cellular Localization Cytoplasm , cytosol . Localizes as discrete foci scattered throughout the cytosol and in the presence of SPSB1 and SPSB4 , exhibits a more diffuse cytosolic localization. .

Tissue specificity Expressed in the liver , retina , bone cells and airway epithelial cells of the lung. Not expressed in the platelets. Expressed in chondrocytes (PubMed:7504305) .

Function Catalytic activity:L-arginine + n NADPH + n H (+) + m O (2) = citrulline + nitric oxide + n NADP (+) . ,cofactor: Binds 1 FAD. ,cofactor: Binds 1 FMN. ,cofactor: Heme group. ,cofactor: Tetrahydrobiopterin (BH4) . May stabilize the dimeric form of the enzyme. ,enzyme regulation: Regulated by calcium/calmodulin. Aspirin inhibits expression and function of this enzyme and effects may be exerted at the level of translational/post-translational modification and directly on the catalytic activity. ,Function: Produces nitric oxide (NO) which is a messenger molecule with diverse functions throughout the body. In macrophages , NO mediates tumoricidal and bactericidal actions. ,induction: By endotoxins and cytokines. ,online information: Nitric oxide synthase entry ,similarity: Belongs to the NOS family. ,similarity: Contains 1 FAD-binding FR-type domain. ,similarity: Contains 1 flavodoxin-like domain. ,subunit: Homodimer. Binds SLC9A3R1. ,tissue specificity: Expressed in the liver , retina , bone cells and airway epithelial cells of the lung. Not expressed in the platelets. ,

| Validation Data

| Contact information

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