

**PAA815Ra01**

**Polyclonal Antibody to Nitric Oxide Synthase 1, Neuronal (NOS1)**

**Organism Species: *Rattus norvegicus* (Rat)**

***Instruction manual***

**FOR RESEARCH USE ONLY**

**NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES**

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13th Edition (Revised in Aug, 2023)

## **[ PROPERTIES ]**

**Source:** Polyclonal antibody preparation

**Host:** Rabbit

**Purification:** Antigen-specific affinity chromatography followed by Protein A affinity chromatography

**Traits:** Liquid

**Concentration:** 0.5mg/mL

**UOM:** 100µl

**Cross Reactivity:** Human;Mouse

**Applications:** WB; IHC

## **[ IMMUNOGEN ]**

**Immunogen:** Recombinant NOS1 (Gln9~Ser136) expressed in *E.coli*

**Accession No.:** RPA815Ra01

## **[ APPLICATIONS ]**

Western blotting: 0.01-2µg/mL;

Immunohistochemistry: 5-20µg/mL;

Optimal working dilutions must be determined by end user.

## **[ FORMULATION ]**

**Form & Buffer:** Supplied as solution form in 0.01M PBS, pH7.4, containing 0.05% Proclin-300, 50% glycerol.

## **[ QUALITY CONTROL ]**

**Content:** The quality control contains recombinant NOS1 disposed in loading buffer.

**Usage:** 10uL per well when 3,3'-Diaminobenzidine(DAB) as the substrate.

5uL per well when used in enhanced chemiluminescent (ECL).

**Note:** The quality control is specifically manufactured as the positive control. Not used for other purposes.

**Loading Buffer:** 100mM Tris (pH6.8), 1% SDS, 150mM NaCl, 50% glycerol, 0.02% BPB,

50mM DTT and 0.02% NaN<sub>3</sub>.

## [ STORAGE AND STABILITY ]

**Storage:** Avoid repeated freeze/thaw cycles.

Store at 4°C for frequent use.

Aliquot and store at -20°C for 24 months.

**Stability Test:** The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

## [ IDENTIFICATION ]

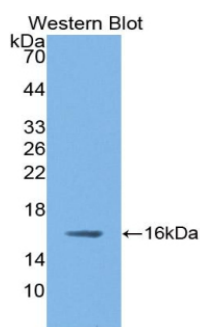
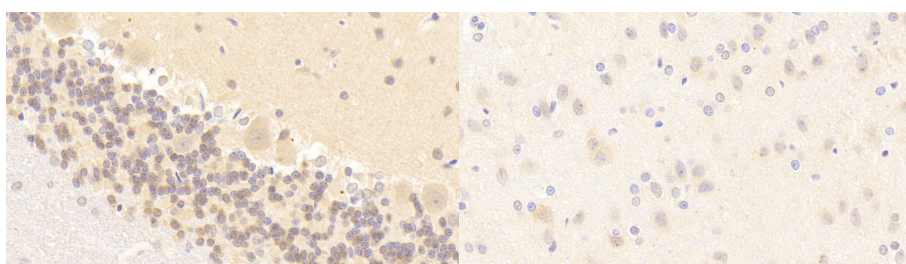
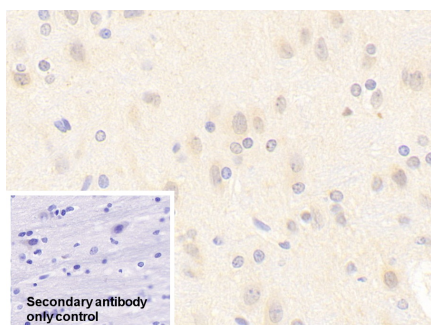


Figure. Western Blot; Sample: Recombinant NOS1, Rat.

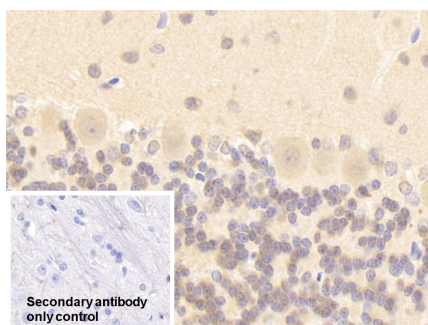


DAB staining on IHC-P; Samples: Rat Cerebellum Tissue; Primary Ab: 20µg/ml Rabbit Anti-Rat NOS1 Antibody Second Ab: 2µg/mL HRP-Linked Caprine Anti-Rabbit IgG Polyclonal Antibody (Catalog: SAA544Rb19)

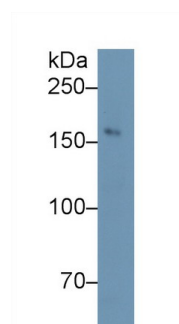
DAB staining on IHC-P; Samples: Rat Cerebrum Tissue; Primary Ab: 20µg/ml Rabbit Anti-Rat NOS1 Antibody Second Ab: 2µg/mL HRP-Linked Caprine Anti-Rabbit IgG Polyclonal Antibody (Catalog: SAA544Rb19)



DAB staining on IHC-P; Sample: Rat Cerebrum Tissue



DAB staining on IHC-P; Sample: Rat Cerebellum Tissue



Western Blot; Sample: Mouse Cerebellum lysate;

Primary Ab: 20µg/ml Rabbit Anti-Rat  
NOS1 Antibody

Control: Used PBS instead of primary  
antibody

Second Ab: 2µg/ml HRP-Linked

Caprine Anti-Rabbit IgG Polyclonal  
Antibody

(Catalog: SAA544Rb19)

Primary Ab: 20µg/ml Rabbit Anti-Rat  
NOS1 Antibody

Control: Used PBS instead of primary  
antibody

Second Ab: 2µg/ml HRP-Linked

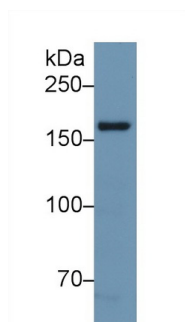
Caprine Anti-Rabbit IgG Polyclonal  
Antibody

(Catalog: SAA544Rb19)

Primary Ab: 1µg/ml Rabbit Anti-Rat  
NOS1 Antibody

Second Ab: 0.2µg/mL HRP-Linked  
Caprine Anti-Rabbit IgG Polyclonal  
Antibody

(Catalog: SAA544Rb19)



Western Blot; Sample: Mouse

Cerebrum lysate;

Primary Ab: 1µg/ml Rabbit Anti-Rat  
NOS1 Antibody

Second Ab: 0.2µg/mL HRP-Linked

Caprine Anti-Rabbit IgG Polyclonal  
Antibody

(Catalog: SAA544Rb19)

## [ **IMPORTANT NOTE** ]

The kit is designed for research use only, we will not be responsible for any issue if the kit was used in clinical diagnostic or any other procedures.