



Rabbit anti-bNOS Polyclonal Antibody

Alternative Name(s): brain or neuronal NOS (b or nNOS, type I); NOS; bNOS; nNOS; IHPS1; N-NOS; NC-NOS

Order Information

- **Description:** bNOS
- **Catalogue:** 500-3824
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Rabbit
- **Clone:** nan
- **Application:** IHC(P), WB, IP
- **Reactivity:** Hu, Rt

ANTIGEN PREPARATION

A synthetic peptide corresponding to the internal segment of human bNOS

BACKGROUND

bNOS belongs to the family of nitric oxide synthases, which synthesize nitric oxide from L-arginine. Nitric oxide is a reactive free radical, which acts as a biologic mediator in several processes, including neurotransmission, and antimicrobial and antitumoral activities. In the brain and peripheral nervous system, nitric oxide displays many properties of a neurotransmitter, and has been implicated in neurotoxicity associated with stroke and neurodegenerative diseases, neural regulation of smooth muscle.

PURIFICATION

The Rabbit IgG is purified by site-modified Epitope Affinity Purification.

FORMULATION

This affinity purified antibody is supplied in sterile Phosphatebuffered saline (pH7.2) containing antibody stabilizer

SPECIFICITY

This antibody recognizes bNOS protein. It reacts to human and rat. The other species not tested.

STORAGE

The antibodies are stable for 24 months from date of receipt when stored at -20oC to -70oC. The antibodies can be stored at 2oC-8oC for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

APPLICATIONS/SUGGESTED WORKING DILUTIONS*

- Western Blot: 0.1-1 µg/ml
- ELISA: 0.01-0.1 µg/ml
- Immunoprecipitation: 2-5 µg/ml
- IHC: 2-10 µg/ml
- Flow cytometry: Not tested
- Molecular Weight: 156-160
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

*Optimal dilutions should be determined by researchers for the specific applications.

FOR RESEARCH USE ONLY.

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DATA ATTACHMENTS

MW (kDa)

250-

150-

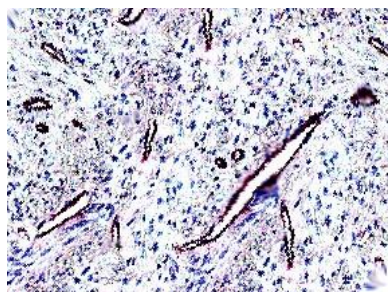
100-

75-

50-



Western Blot: The whole lysate derived from U118MG (20 ug/lane) immunoblotted by Rabbit anti – bNOS (Cat# 500-3824) at 1:500. Observed a major immunoreactive band at molecular weight ~160 kDa.



Immunohistochemistry: Human Brain (FFPE) stained with Rabbit anti-bNOS (Cat# 500-3824) at 1:200 for 10 min @ RT. Staining of formalin-fixed tissue requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min.

REFERENCES

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