Rabbit anti eNOS Polyclonal Antibody

Alternative Name(s): nitric oxide synthase 3 (endothelial cell)

Order Information

- **Description:** eNOS
- **Catalogue:** 500-4114
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Rabbit
- **Clone:** nan
- **Application:** IHC(P), WB
- **Reactivity:** Hu, Ms, Rt

ANTIGEN PREPARATION

A synthetic peptide corresponding to the internal sequence (residing in 550-650aa) of human eNOS protein.

BACKGROUND

NOS catalyzes the oxidization of L-arginine to produce L-citrulline and NO. Nitric oxide (NO) is an inorganic, gaseous free radical that carries a variety of messages between cells. Vasorelaxation, neurotransmission and cytotoxicity can all be enhanced through cellular response to NO. NO production is mediated by members of the nitric oxide synthase (NOS) family. There are three types of NOS: two constitutive isoforms, brain or neuronal NOS (b or nNOS, type I) & endothelial cell NOS (eNOS, type III), and one inducible isoform (iNOS, type II). iNOS is found in a variety of cell types including macrophages, hepatocytes, synoviocytes, and smooth muscle cells. Cytokines such as interferon-gamma (IFN), tumor necrosis factor (TNF), interleukin-1 and -2, and lipopolysaccarides (LPS) cause an increase in iNOS mRNA, protein, and activity levels. The phosphorylation of eNOS by Protein kinase C was associated with an increase in NO production.

PURIFICATION

The Rabbit IgG is purified by Epitope Affinity Purification

FORMULATION

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

SPECIFICITY

This antibody only recognizes ~130 kDa of human eNOS. It does not detect human inducible NOS or rat brain NOS. It also reacts with mouse and rat eNOS protein. The other species are 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: 140.0
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

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

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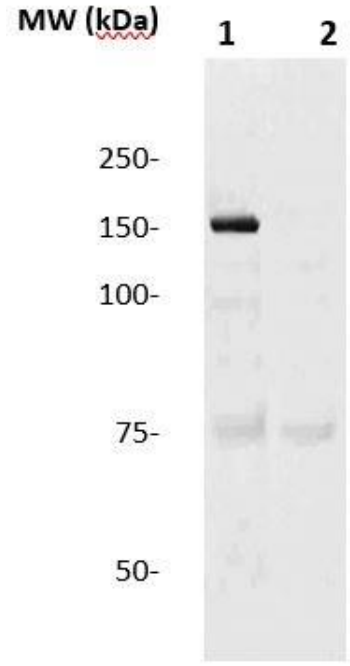
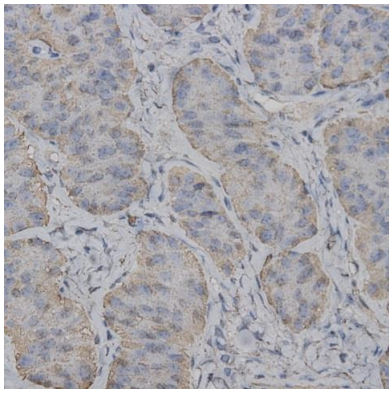
DATA ATTACHMENTS



Western Blot: The tissue lysate derived from mouse lung was immunoprecipitated by Rabbit anti eNOS (Cat#500-4114), then immuno-blotted by the same antibody at 1:500 (lane 1), Lane 2: BSA as a negative control. Observed a major immunoreactive band at molecular weight ~140kDa.



Immunohistochemistry: Human placenta tissue (FFPE) stained with Anti-eNOS antibody (Cat# 500-4114) at 1:50 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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