Anti NO Synthase I (998-1024) (Human) Serum Cat. No. YP050 Lot No. 11990422

Description: This antiserum was raised in a rabbit by immunization with a carrier free synthetic NO synthase I (NOS-I, cNOS or nNOS) (998-1024) (human) peptide. The product vial contains 50 μL of the titled antiserum obtained by lyophilizing its 0.001 M phosphate buffer (pH 7.0, 0.5mL) solution. It can be used for immunoassay, immunohistochemistry or any other immunoreaction with NO synthase I (human).

Immunogen: Synthetic NO Synthase I (998-1024) (human), carrier free **Host:** Rabbit

Amino Acid Sequence of NO Synthase I (998-1024) (human)[1]:

998 1024

AAR LLSRQNCQSP KSSRSTIFVR LHTN

Product Form: Lyophilized unpurified serum **Size:** 50 μL

Reconstitution: Reconstitute the product with 0.5mL of 0.01M PBS (pH7.0) to make a 10 fold diluted stock solution. If it is stored in a refrigerator, add moderate antiseptic to the solution (e.g. NaN_3 0.1%).

Storage: The product will be stable for over one year if it be stored at -20°C to -80°C until opened. Upon reconstitution, the antiserum solution must be stored at 2°C to 8°C and used within one month. Repeated freezing-thawing should be avoided.

Suggested Working Dilution Range: 1:2,000 (final dilution ~15,000) for radioimmunoassay[2]; 1:2,000 for immunoblot; 1:9,000 for enzyme immunoassay; 1:1,000-4,000 for immunohistochemistry (frozen section)[3]. Optimal dilution should be determined by each laboratory for each application.

Specificity (based on radioimmunoassay)[2]**:** NO synthase I (998-1024) (human) 100%, NO synthase II (human) 0%, NO Synthase III (human) 0%

Positive Control (immunohistochemistry)**:** Rat penis

Species Tested: Human, rat, guinea pig

REFERENCES:

1) M. Nakane, HHHW Schmidt et al., Cloned human brain nitric oxide synthase is highly expressed in skeletal muscle. FEBS Letters 316: 175-80, 1993

2) Y. Arakawa, E. Takao et al., Immunochemical characterization and measurement of neuronal type nitric oxide synthase in human neuroblastoma NB-OK-1 cell using novel anti-synthetiv peptide antibody and specific immunoassay system. Regulatory Peptides 106: 115-123, 2002

3) J. Li, N. Yanaihara et al., Production of anti-human/rat NOS-1 serum and development of EIA specific to rat/human NOS-1. Proceedings of the 20th Gut Hormones, Japanese Society of Gut Hormones (Ed) 17: 250-256-1999

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DO NOT USE ORGANIC SOLVENTS FOR DISSOLVING ANTISERUM

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