



Catalog Number:	RA24287	Host:	Rabbit
Product Type:	Whole Serum	Species Reactivity:	Human, Mouse, Rat, Guinea Pig, Primate, Cat
Immunogen Sequence:	C-terminal synthetic peptide sequence corresponding to amino acids (1419-1433) of human nNos coupled to KLH.	Format:	Lyophilized. 100 ul with <0.09% sodium azide as a preservative.
Applications:	Immunohistochemistry: 1:1,000-1:2,000 (in PBS/0.3% Triton X-100 – Indirect Immunofluorescence). 1:8,000-1:12,000 (in in PBS/0.3% Triton X-100 – Bn/Av-HRP Technique). Western Blot: 1:500-1,2,000		
	Dilutions listed as a recommendation. Optimal dilution should be determined by investigator.		
Reconstitution:	Do not reconstitute until ready to use since the product is most stable when lyophilized. The product does not need to be cooled during shipping. For long-term storage, store lyophilized antibody until ready to use at -15° C or lower. Reconstitute with 100 µL of distilled or deionized water.		
Storage:	Maintain at +2-8°C for 3 months or at -20°C for longer periods. Stable for 1 year. <i>Avoid repeated freeze-thaw cycles.</i>		

Application Notes

Tissue Preparation:

10 µm cryostat

- Fixative: 4% paraformaldehyde in 0.1 M phosphate buffer, pH 7.4; 500 mL over ~20-30 min.
- Post Fixation: 1.5 hr. at 4°C in 4% paraformaldehyde in 0.1 M phosphate buffer, pH 7.4.
- Incubation: 18-24 hours at 2-8° C.

Immunohistochemistry:

Our neuronal Nitric Oxide synthase C-terminus antiserum was quality control tested using standard immunohistochemical methods. The antiserum demonstrates strongly positive labeling of rat hypothalamus, striatum, cortex and spinal cord using indirect immunofluorescent and biotin/avidin-HRP techniques. Recommended primary dilutions are 1/1,000 - 1/1,500 in PBS/0.3% Triton X-100 - Cy3 Technique and 1/8,000 - 1/12,000 in PBS/0.3% Triton X-100 - Bn/Av-HRP Technique.

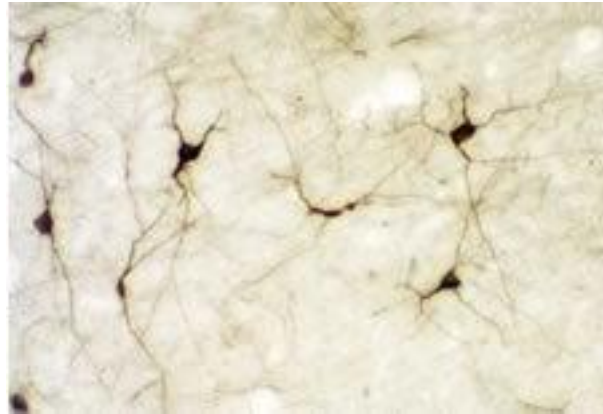
Western Blot:

By Western blot analysis of brain homogenates, the antibody specifically labels a band of approximately 155 kD. Immunoblotting is completely abolished by pre-adsorption with synthetic human nNOS (1419-1433) at 5 µg per mL of diluted antibody. No cross reactivity with other forms of NOS were observed. The nNOS antiserum has been used successfully in human, rat, mouse, guinea pig, cat, and monkey tissue. Detection of nNOS from other species will depend upon sequence homology.

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Image: nNOS staining of rat brain.



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