

## Rabbit anti-Human NNT Polyclonal Antibody | anti-NNT antibody

Anti-NNT Antibody, Rabbit Polyclonal

|                               |                       |                            |                                             |
|-------------------------------|-----------------------|----------------------------|---------------------------------------------|
| CATALOG #<br><b>AAA256700</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>Immunohistochemistry</b> |
|-------------------------------|-----------------------|----------------------------|---------------------------------------------|

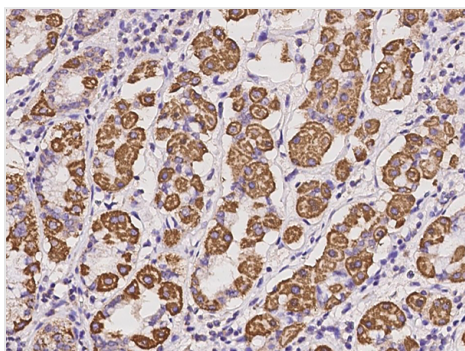
### PRODUCT SYNONYMS

NNT; Polyclonal Antibody; Anti-NNT Antibody; Rabbit Polyclonal; NNT Antibody; Rabbit PAb; Antigen Affinity Purified; nicotinamide nucleotide transhydrogenase; Anti-GCCD4 Antibody; anti-NNT antibody

### PRODUCT SPECIFICATIONS

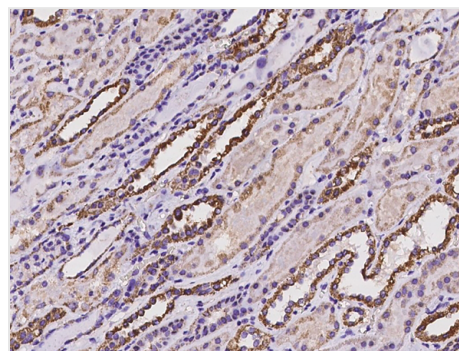
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|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                          | Rabbit                                                                                                                                                                                                                                             |
| Reactivity                                    | Human                                                                                                                                                                                                                                              |
| Clonality                                     | Polyclonal                                                                                                                                                                                                                                         |
| Isotype                                       | Rabbit IgG                                                                                                                                                                                                                                         |
| Specificity                                   | Human NNT                                                                                                                                                                                                                                          |
| Purity/Purification                           | Protein A & Antigen Affinity                                                                                                                                                                                                                       |
| Form/Format                                   | Liquid; PBS, pH7.0 with 0.03% Proclin300                                                                                                                                                                                                           |
| Applicable Applications for anti-NNT antibody | IHC (Immunohistochemistry)                                                                                                                                                                                                                         |
| Immunogen                                     | E Coli-derived Human NNT fragment                                                                                                                                                                                                                  |
| Conjugation                                   | Unconjugated                                                                                                                                                                                                                                       |
| Preparation                                   | Produced in rabbits immunized with E Coli-derived Human NNT fragment, and purified by antigen affinity chromatography.                                                                                                                             |
| Preparation and Storage                       | This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Avoid repeated freeze-thaw cycles. |

### IMAGES



IHC (Immunohistochemistry)

Immunochemical staining of human NNT in human stomach with rabbit polyclonal antibody at 1:100 dilution, formalin-fixed paraffin embedded sections.



IHC (Immunohistochemistry)

Immunochemical staining of human NNT in human kidney with rabbit polyclonal antibody at 1:100 dilution, formalin-fixed paraffin embedded sections.

ADDITIONAL INFORMATION

|                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| Related Product Information for anti-NNT antibody | Proton-translocating transhydrogenase (also known as nicotinamide nucleotide transhydrogenase (NNT)) is found in the plasma membranes of bacteria and the inner mitochondrial membranes of eukaryotes. NNT positively regulates nicotinamide adenine dinucleotide phosphate (NADPH), a key mediator of energy transduction and redox homeostasis. NNT catalyzes the transfer of a hydride between NADH and NADP+, coupled to the translocation of one proton across the membrane. Its main physiological function is the generation of NADPH, which is a substrate in anabolic reactions and a regulator of oxidative status; however, NNT may also fine-tune the Krebs cycle. NNT deficiency causes familial glucocorticoid deficiency in humans and metabolic abnormalities in mice, similar to those observed in type II diabetes. The role that NNT-regulated bioenergetics play in the inflammatory response of immune cells in obesity is untested. |
| References                                        | Meimaridou E, et al. (2018) Nnt is a key regulator of adrenal redox homeostasis and steroidogenesis in male mice. J Endocrinol 236 (1): 13-28.McCambridge G, et al. (2019) Saturated fatty acid activates t cell inflammation through a nicotinamide nucleotide transhydrogenase (nnt)-dependent mechanism. Biomolecules 9 (2): 79.Kampjut D, et al. (2019) Structure and mechanism of mitochondrial proton-translocating transhydrogenase. Nature 573 (7773): 291-295.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://stage.aaabiotech.com/polyclonal/nnt-antibody-immunohistochemistry-elisa/256700>