

Product datasheet for **TA339882**

NAGS Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-NAGS antibody: synthetic peptide directed towards the C terminal of human NAGS. Synthetic peptide located within the following region: YLDKFBVSSSRQGQSGQMLWECLRRDLQTLFWRSRVTNPINPWYFKHSD
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Concentration:	lot specific
Purification:	Protein A purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	58 kDa
Gene Name:	N-acetylglutamate synthase
Database Link:	NP_694551 Entrez Gene 162417 Human Q8N159



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Background:

NAGS is a mitochondrial enzyme that catalyzes the formation of N-acetylglutamate (NAG) from glutamate and acetyl coenzyme-A. NAG is a cofactor of carbamyl phosphate synthetase I (CPSI), the first enzyme of the urea cycle in mammals. Deficiencies in N-acetylglutamate synthase have been associated with hyperammonemia. The N-acetylglutamate synthase gene encodes a mitochondrial enzyme that catalyzes the formation of N-acetylglutamate (NAG) from glutamate and acetyl coenzyme-A. NAG is a cofactor of carbamyl phosphate synthetase I (CPSI), the first enzyme of the urea cycle in mammals. This gene may regulate ureagenesis by altering NAG availability and, thereby, CPSI activity. Deficiencies in N-acetylglutamate synthase have been associated with hyperammonemia.

Synonyms:

AGAS; ARGA

Note:

Immunogen Sequence Homology: Dog: 100%; Pig: 100%; Rat: 100%; Horse: 100%; Human: 100%; Mouse: 100%; Bovine: 100%; Rabbit: 100%; Zebrafish: 86%; Guinea pig: 86%

Protein Pathways:

Arginine and proline metabolism, Metabolic pathways

Product images:

WB Suggested Anti-NAGS Antibody Titration: 1.25 ug/ml; Positive Control: HepG2 cell lysate