

Rabbit anti-Human, Mouse ATPGD1 Polyclonal Antibody | anti-CARNS1 antibody

ATPGD1 Antibody (N-term)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA289725	Rabbit	Human, Mouse	Immunohistochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

ATPGD1; Polyclonal Antibody; ATPGD1 Antibody (N-term); Carnosine synthase 1; ATP-grasp domain-containing protein 1; CARNS1; KIAA1394; anti-CARNS1 antibody

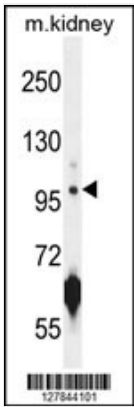
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	This ATPGD1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 239-268 amino acids from the N-terminal region of human ATPGD1.
Purity/Purification	This antibody is purified through a protein A column, followed by peptide affinity purification.
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Sequence Positions	239-268
Sequence Length	950
Applicable Applications for anti-CARNS1 antibody	IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Function	Catalyzes the synthesis of carnosine and homocarnosine. Carnosine is synthesized more efficiently than homocarnosine.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



IHC (Immunohiostchemistry)
ATPGD1 antibody (N-term) immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the ATPGD1 antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.



WB (Western Blot)
ATPGD1 Antibody (N-term) western blot analysis in mouse kidney tissue lysates (35ug/lane).This demonstrates the ATPGD1 antibody detected the ATPGD1 protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-CARNS1 antibody	CARNS1 (EC 6.3.2.11), a member of the ATP-grasp family of ATPases, catalyzes the formation of carnosine (beta-alanyl-L-histidine) and homocarnosine (gamma-aminobutyl-L-histidine), which are found mainly in skeletal muscle and the central nervous system, respectively (Drozak et al., 2010 [PubMed 20097752]). ATPGD1 Antibody (N-term) - References
Product Categories/Family for anti-CARNS1 antibody	Signal Transduction
References	Drozak, J., et al. J. Biol. Chem. 285(13):9346-9356(2010)

NCBI AND UNIPROT INFORMATION

NCBI GI #	261245046
NCBI GeneID	57571
NCBI Accession #	NP_001159694.1; NP_065862.1
NCBI GenBank Nucleotide #	NM_001166222.1
UniProt Accession #	A5YM72; Q8N467; Q9P2F3; A8K1M3; B4DFC6; E9PK38; F5H427
Molecular Weight	Calculated MW: 88484
NCBI Official Full Name	carnosine synthase 1 isoform 1
NCBI Official Synonym Full Names	carnosine synthase 1
NCBI Official Symbol	CARNS1
NCBI Official Synonym Symbols	ATPGD1
NCBI Protein Information	carnosine synthase 1
UniProt Protein Name	Carnosine synthase 1
UniProt Gene Name	CARNS1
UniProt Synonym Gene Names	ATPGD1; KIAA1394
UniProt Entry Name	CRNS1_HUMAN

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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/atpgd1-antibody-immunohistochemistry-western-blot-elisa/289725>